

The Church file

The CHEMIST AND DRUGGIST

RETAILER - WHOLESALE - MANUFACTURER

JANUARY 29, 1949



By permission of the Worshipful Company of Skinners

This reproduction of the painting by Sir Frank Brangwyn, R.A., of the "Departure of Lancaster for the East Indies" typifies the spirit of the merchant adventurers who laid the foundations for Britain's world trade. Within the vast and complex network into which Britain's trade has developed the Biddle Sawyer organisation, with its associated companies, branch offices and agents throughout the world, offers its services to the British pharmaceutical trade, supplying both raw materials and finished products directly from world sources of origin and manufacture, or from extensive stocks in London.

BIDDLE, SAWYER & CO. LTD.

4 GRAFTON STREET, LONDON, W.1 Telephone: REGENT 0521 Cables: BIDSAWYA, PICCY, LONDON
NEW YORK. BOMBAY. JOHANNESBURG. RIO DE JANEIRO. BUENOS AIRES. PARIS
Offices and Agents throughout the world.

QUININE and SALTS

from Cinchona Bark

including

QUININE SULPHATE

B.P. 1948

TOTAQUINE

Manufactured at the
GARDEN CITY FACTORY OF

CARNEGIE QUININE WORKS LTD.

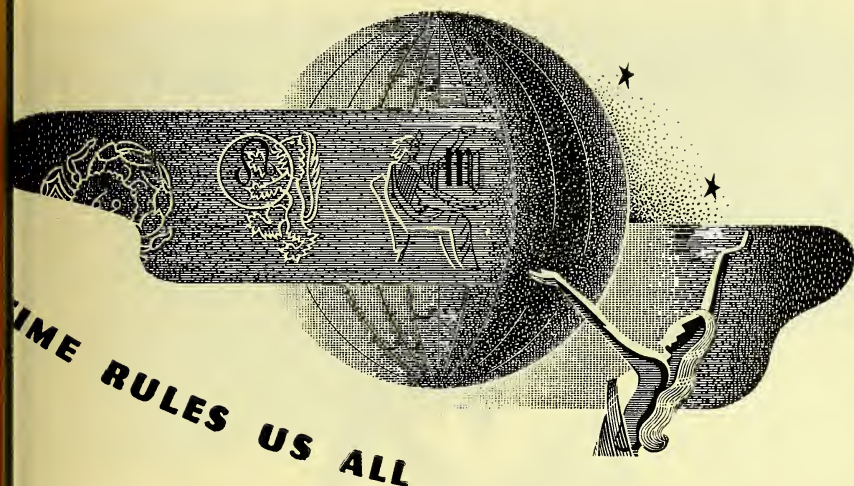
ASSOCIATED WITH CARNEGIE CHEMICALS (WELWYN) LTD

WELWYN GARDEN CITY
HERTFORDSHIRE, ENGLAND

TELEGRAMS:
CARNECHEM,
WELWYN GARDEN

TELEPHONE :
WELWYN GARDEN
506 (4 LINES)

Please note that "Carnegies of Welwyn" have ONLY ONE address, as above.



... but for customers who depend on insulin to control carbohydrate metabolism it assumes an even greater significance.

In the selection of the type of insulin, speed of action and duration of effect are all important factors. There are forms of A.B. brand of Insulin to meet all requirements.

INSULIN A.B.: The original unmodified type. Immediately effective but relatively short-lived.

GLOBIN INSULIN (with Zinc) A.B.: A combination of insulin and globin which prolongs the effect and controls carbohydrate metabolism for as long as 24 hours.

PROTAMINE ZINC INSULIN A.B.: A suspension of insulin precipitated by protamine which is absorbed slowly, thus delaying the initial action and prolonging the effect for 24 hours and upwards.

INSULIN



Each type is supplied in 5 c.c. vials of 40 units per c.c.
—Insulin A.B. 2/4 ; Globin Insulin A.B. 2/9 ; Protamine Zinc Insulin A.B. 2/9.

Joint Licensees and Manufacturers:

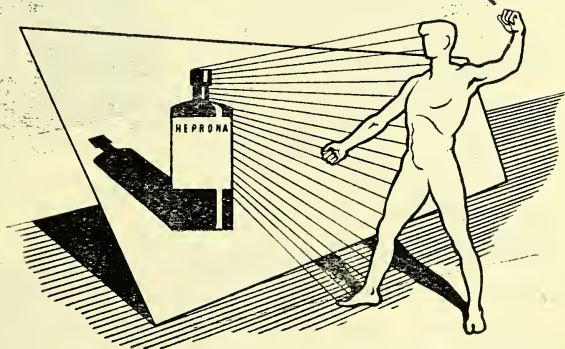
ALLEN & HANBURYS LTD. : THE BRITISH DRUG HOUSES LTD.

A TONIC RESTORATIVE

HEPRONA

Convalescence after illness
and surgical operations may
be prolonged by tardiness in
blood regeneration. Heprona, a
combination of proteolysed liver, iron,
Vitamins B and C, and glycerophosphates,
acts as a tonic restorative in such cases.

	Retail	Wholesale
Bottles of 6 fl. oz.	7/5 each	4/2 each RT
" " 40 " "	38/6 "	21/- " RT
RT = Subject to 33½% tax.		

Further details sent on request

EVANS MEDICAL SUPPLIES LTD., LIVERPOOL, LONDON & OVERSEAS

228a—14/A7

MORE—and BETTER

The advertisement you see inset is one of the new series Bob Martin is now launching. Retaining the familiar illustrations of well-bred and handsome dogs, this series also points the contrast by showing the symptoms of poor condition. The Bob Martin advertising programme has already been expanded, and larger spaces and wider coverage are planned for the New Year. Increased advertising brings increased demand, so make sure you carry the full range of Bob Martin Preparations for dogs. Whatever the customer's particular problem, the answer is "For doggy good health—Bob Martin's."

*You can tell he's a
Bob Martin dog*

He's a picture of good health and good looks—even in winter when regular exercise is difficult.

Is your own dog like that? If he's not, it's up to you to help him. After all, *he can't tell you how he feels*, even if he's wretched

once a day. That will help to purify his blood and provide those elements so vital for his good health.

Bob Martin's Condition Powder Tablets cost 8d. a packet, 1/8d. a large carton.



POOR CONDITION
—watch for
these common
signs.

LISLETSNESS



LOSS OF APPETITE



POOR COAT



For doggy good health — Bob Martin's

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FINE CHEMICALS

Salol
Ephedrine
Calciferol
Barbiturates
Salicylates
Papaverine
Menapthone
Triethanolamine

★ Full Price
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Emulsifiers ("LESIDOL" Series)

"LESIDOL P" Food Emulsifier
"LESIDOL CBS" Cocoabutter Base
"LESIDOL 32" Lecithin Alternative

Solvents ("SOLVETOL" Series)

"SOLVETOL C" n'-Propenyl Allophanate
"SOLVETOL G" Isopropyl-Propenyl Alcohol
"SOLVETOL I" Ethyl Acetate (Lacquer Base)

STANDARD CHEMICAL & PHARMACEUTICAL CORPORATION LIMITED

2, DENBIGH ROAD, EALING, W.13

Tel.: WEL 2263

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Protection against colds?

ESoBACTULIN—A five-day course consisting of 6 capsules gives most people 3 months' immunity from colds.

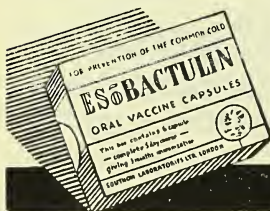
Complete Course 8/3 including P.T.

Trade Discount :

33 $\frac{1}{3}$ % plus Special Bonus Offer: 13 to the dozen

Supplied through YOUR Wholesaler

Show material will be sent direct on request



SOUTHON LABORATORIES LIMITED
UPPER RICHMOND ROAD, LONDON, S.W.15

ESoBACTULIN
protection against colds



POCKET CALENDARS

For counter distribution write for supplies now

TOWLE'S CHLORODYNE

Remains ever popular with the Pharmacist
and his customers

Ample supplies are available

PATA

RETAIL PRICES - - $1/5\frac{1}{2}$ and $3/5\frac{1}{2}$
Including Purchase Tax

TRADE PRICES - 10/- doz. and 24/6 doz.
Plus $33\frac{1}{3}\%$ Purchase Tax

Order through your usual Wholesaler or direct from

JAMES WOOLLEY, SONS & CO., LTD.

VICTORIA BRIDGE

MANCHESTER, 3

If it's PILLS or TABLETS . . .



EQUIPPED FOR MASS PRODUCTION

||| *Accuracy and Uniformity assured by over a century of
Manufacturing Experience*

QUOTATIONS UPON REQUEST

ARTHUR H. COX & CO. LTD. BRIGHTON, 7, SX.

*A new form of
Emulsifying Wax*

POLAWAX

SELF-EMULSIFYING STEARYL ALCOHOL

Non-ionic Non-hydrolising

*A new form of the
self-emulsifying
cetyl/stearyl
alcohol combina-
tions now
becoming
increasingly
known as emulsi-
fying waxes.
Technical data
with suggested
cosmetic and
pharmaceutical
applications and
free testing
samples of
Polawax available
on request.*

CRODA LIMITED

CRODA HOUSE, SNAITH, GOOLE, YORKS. Telephone: SNAITH 77 (3 lines) Telegrams: CRODA GOO

London Office: 24 HAYMARKET, S.W.1. Telephone: WHITEHALL 4725/6. Telegrams: CRODAPUR LESQUA

Manchester Office: 74 CORPORATION STREET, MANCHESTER 4.

Telephone: BLACKFRIARS 80

Introducing

KINA-'REDOXON'

T A B L E T S

QUININE & VITAMIN C

FOR PROPHYLAXIS AND TREATMENT OF THE COMMON
COLD AND OTHER UPPER RESPIRATORY INFECTIONS

Quinine possesses in addition to antipyretic properties a central analgesic action which blunts the pain in muscles and joints associated with influenzal infection. "It is important to ensure a reasonable daily intake of not less than about 50 mg. of vitamin C . . . and that it may be well to ensure saturation in all feverish patients."

Lancet 1944, ii, 118.

*Each sugar-coated tablet contains 30
mg. (600 int. units) of ascorbic acid, and
30 mg. (gr. $\frac{1}{2}$) of quinine sulphate.*

Issued in bottles of 50 and 500

Further information on request.

ROCHE PRODUCTS LIMITED
WELWYN GARDEN CITY, HERTS

Scottish Depot: 665 Great Western Road, Glasgow, W.2.

Are You Stocking?

NERVONE

SALES STEADILY INCREASING!

INCREASED advertising is now in force and more and more of your customers will ask you for "Nervone"—the new biochemic remedy for nervous disorders.

You should make sure of your share of this profitable business by stocking and displaying. Show material gladly sent free on request.

PATA

Retail	(including Tax)	Wholesale
3/3, 5/6, 22/-		28/5, 48/-, 192/-
per packet		per doz.

"NERVONE"

Cecil House, Holborn Viaduct, London

BEAR-HONEY

noted for
Purity & Quality

As direct importers from all the main Honey-producing Countries of the World, we can supply Standard Grades of the finest Honey for all Manufacturing purposes.



L. GARVIN & CO. LTD.
ISLEWORTH
MIDDLESEX

THE Modern

ANTACID...



Magtriz Tablets are an effective combination of Magnesium Trisilicate and Magnesium Hydroxide, and provide prompt relief and prolonged control in all cases of Hyperchlorhydria as recommended by the Medical Profession.

MAGTRIZ

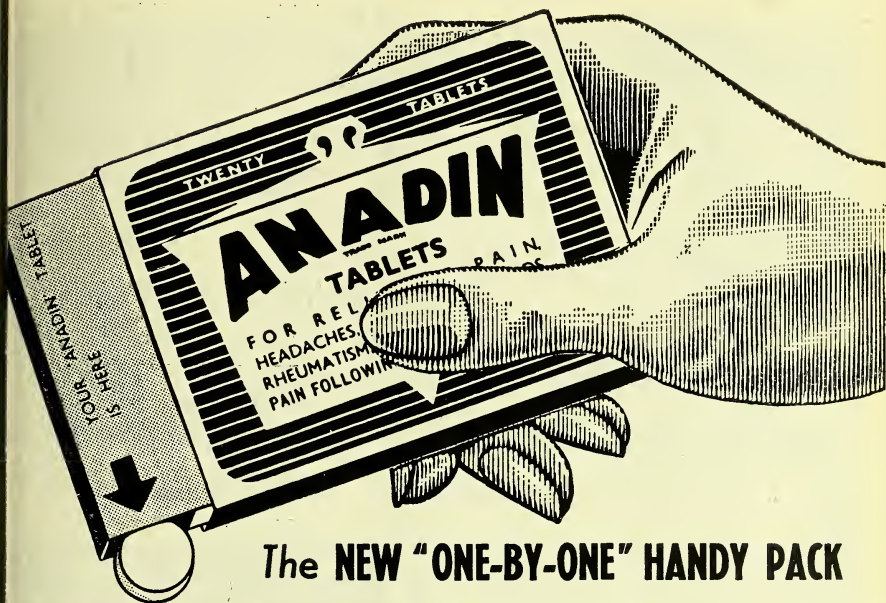
DIGESTIVE TABLETS

2 sizes, 7½d. and 1/6d.
Trade 4/- and 10/- per doz. plus P.T.
Both sizes packed in attractive cartons.
Small size 2 dozen. Large size 1 dozen.



WESTMINSTER LABORATORIES LTD. Chalcot Road, London, N.W.1 Tel.: PRImrose 3395/6/7

PATA



The NEW "ONE-BY-ONE" HANDY PACK



This new hygienic easy-to-use pack containing 20 Tablets has been specially designed, so that no longer will there be the risk of tablets falling out in pocket or handbag. Slide it open with one finger, shake, and out come 'ANADIN'—one-by-one; two 'ANADIN' tablets for the relief of pain.

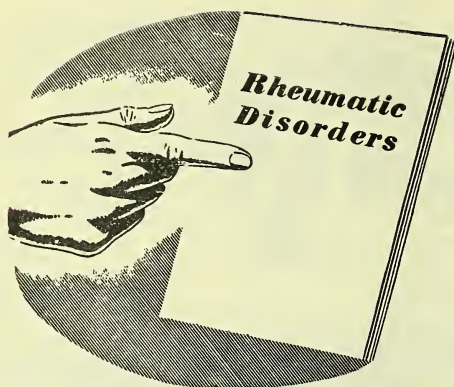
THE PROFESSIONALLY RECOMMENDED ANALGESIC. 'Anadin' will be moving off your shelves more quickly than ever. We are detailing the Dental and Nursing Professions intensively and the response is inspiring. Now in the Daily Press, Sunday Press and widely read Magazines—particularly those appealing to women—we are supporting this professional appeal with effective public advertising.

POINT OF SALES DISPLAY. We know that in the winter months before us, colds and 'flu will be on the increase and the call for 'Anadin' will be even greater. To help you, we are now packing all 'Anadin' 20's in attractive Counter Display Units. 'Anadin' is safe to stock, sell and recommend. See that you have ample requirements to meet this increasing demand. Attractive showcards are also available on request.

'ANADIN' tablets can be included with other I.C.C. lines to qualify for extra Co-operation Discounts of 12½% on orders of £10 and over; 10% on orders of £5 and over.



INTERNATIONAL CHEMICAL COMPANY LTD., CHENIES STREET, LONDON, W.C.1



NEW BOOKLET

FOR RHEUMATIC SUFFERERS

This is an authoritative treatise on Rheumatic complaints written in language that the layman can easily understand. Copies are now being included in both the 5/6d. and 26/5d. size Curicones Cartons, and supplies are also available to chemists FREE on request.

Mention is being made of this booklet in our National Advertising and readers are invited to ask their chemist for a copy. Make sure you have a supply of these booklets on hand.

If you require one of these Curicones booklets at short notice to comply with a request from a customer, please take one from a CURICONES CARTON.



Weather-Indicating Novelty Showcards

Size 8 x 12 (approx.) Printed in bright, attractive colours. An excellent novelty and surprisingly accurate. So simply send us your name and address to obtain one.

PATA

CURICONES

Stephen Matthews & Co. Ltd., 19/21 Farringdon St., E.C.4

AN ALL COTTON WOOL PRODUCT OF REE

Consolux

Patent No. 410
(Registered)

SUPERFINE QUALITY
ALL WOOL SANITARY TOWELS

LOOPED ENDS
NON-ABSORBENT BACK

WHOLESALE ONLY

ROBERT BAILEY & SON, LTD.
SURGICAL DRESSING MANUFACTURERS
DYSART STREET, GREAT MOOR, STOCKPORT
Phone: GREAT MOOR 3006 Grams: "UNDISPUTED," STOCKPORT

JEYES' FLUID

DISINFECTANT

RETURNS TO

Pre-War Prices

FEBRUARY 1st

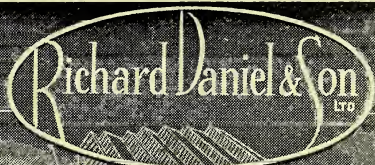
5 OZ BOTTLES 1/- 10 OZ 1/1

These prices will be announced to the public on March 1st, but all orders dispatched on and after February 1st will be invoiced at new prices, 9/- doz. and 13/6 doz. thus giving one month to clear existing stocks.



Quality unchanged

JEYES' SANITARY COMPOUNDS CO.
CHIGWELL · ESSEX



PROPRIETARIES
SUNDRIES DRUGS
TABLETS & PILLS

FOR
CHEMISTS

*Manufacturing
Chemists*

Office & Works: Mansfield Road Derby Telephone 4266 (3 lines) Branch Warehouse: Grosvenor St. Ashton-under-Lyne Telephone 2816 (2 lines)

Pharmaceutical and Perfumery Labels
by
THOMAS WAIDE & SONS LTD
KIRKSTALL HILL LEEDS

Labels visible in the collage include: HANDS ANTISEPTIC DISINFECTANT, CALVERT'S, DETTO, SEVEN SEAS, FRESH PURE COD LIVER OIL, SWAR-DOWN SUN BRONZE OIL, MOORLAND INDIGESTION, and LEATHER.

BE PREPARED

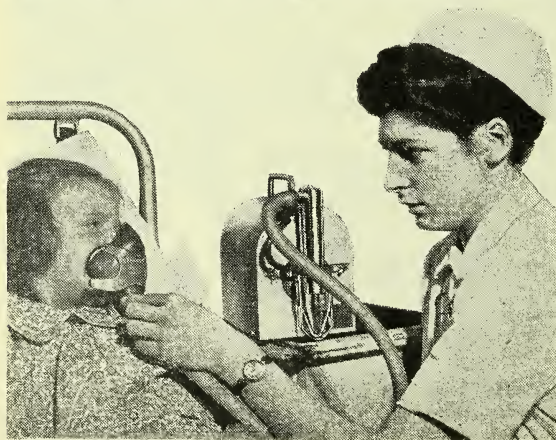
to meet the demand for these WELL KNOWN CG specialities:—

- CARNATION Corn Caps.
- ADAPTOPLAST First Aid Dressings.
- EUPINAL
- G.P. ANTISEPTIC.
- HEALO OINTMENT.
- OZOMINT Tooth Paste.
- SANIDS Mouth Wash Tablets.
- SANOID Dusting Powder.
- REGULOL Laxative Cream.

In regular supply, only direct from :

CUXSON, GERRARD & Co., Ltd., OLDBURY

The AEROLYSER—now available through the HOSPITAL SERVICE



The MA3 Aerolyser is becoming increasingly widely accepted in hospitals, specialists and general practitioners for the administration of penicillin and other therapeutic substances in aerosol form.

It can now be hired for short term treatment free through the Hospital Service, on General recommendation, and by private patients for £1.8.6d. per week (minimum 2 weeks) throughout England, Scotland and Wales. Door-to-door delivery collection arranged.

The Aerolyser may still be purchased outright for £27.2 (including face mask).

DISPLAYS bring *ALL your* **'ASPRO' PUBLIC IN!**

It is only by continuous display that you will discover just how large 'ASPRO' demand is to-day. For the 'ASPRO' public grows ever greater. 'ASPRO' is proof against any "ups and downs" in the market—changes in purchasing power, fashions or habits. The success of 'ASPRO' is reaching unique proportions simply because it is a good product which more than fulfils its claims, and which is well, widely and persistently advertised.

'ASPRO' 5's NOW PACKED IN 6 DOZ. SHOWBOXES AGAIN

The easing of the supply position now enables us to revert to the pre-war 5's showbox of 6 dozen. At the same time we are reintroducing the pre-war minimum bonus quantities of 6 dozen 5's or 3 dozen 27's. Otherwise bonus terms remain unchanged as follows—

- 6 doz. 5's qualify for a
bonus of 6 packets of 5's.
- 3 doz. 27's qualify for a
bonus of 6 packets of 27's
provided that 14 days' window display is given.

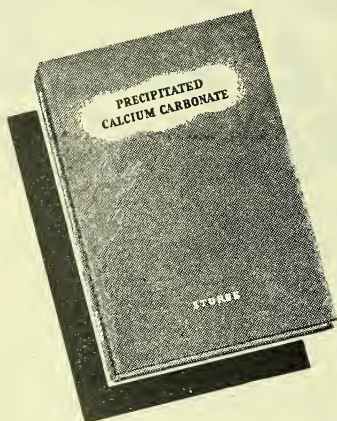
Bonus quantities are *pro rata* for larger orders. All bonus is entirely free of cost to you. The 6 packets of 5's retail at 2/- and the 6 packets of 27's at 8/6, so—

**YOU GAIN OVER 32% EXTRA PROFIT WHEN YOU BUY
THE TWO SIZES ON FULL WINDOW DISPLAY TERMS**

Made in England by
ASPRO LIMITED, TRADING ESTATE
Slough, Bucks

ASPRO
REG. TRADE MARK





**NO BUYER OR TECHNICIAN
SHOULD BE WITHOUT
THE NEW STURGE BOOK —**



PRECIPITATED CALCIUM CARBONATE

This fifty-two page book deals thoroughly with the history, manufacture and standardisation of Precipitated Calcium Carbonate. Sections cover—origins, properties, uses, tests, research progress. A special feature of this edition is the inclusion of a comprehensive bibliography.

JOHN & E. STURGE LIMITED, 1 WHEELYS RD., BIRMINGHAM 15

POTTER AND CLARKE LTD

TRADE MARK



TOYTOWN

*a Splendid Range
of Children's Remedies*



Potter & Clarke break fresh ground in offering the trade this fine list of Children's Remedies, the liquids being flavoured especially for the youngsters. Put up in up-to-date modern colourful packs, they should prove a profitable proposition. Up to the present the list is as follows:—

- TONIC
- VAPORISING OINTMENT
- SOOTHING SYRUP
- LAXATIVE
- COUGH MIXTURE
- BABY POWDER

12/6 doz. 6 doz. 12/3 per doz. 12 doz. 12/- per doz.
(excluding Purchase Tax)

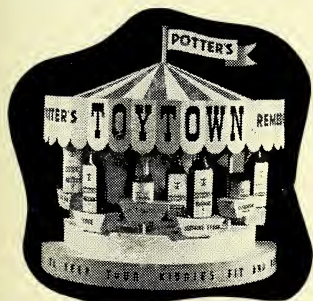
- ZINC & CASTOR OIL OINTMENT

6/6 doz. 6 doz. 6/3 per doz. 12 doz. 6/- per doz.

*A most attractive display stand is offered
the trade (illustrated) and available from
our representative.*

POTTER & CLARKE LTD.

Artillery Lane, London, E.1.



In well-informed circles



Many topics may be touched upon—and various viewpoints expressed. But when the conversation turns to the all-important subject of Feminine Hygiene opinion is unanimous. In Rendells Products women have the perfect answer to their particular personal problems. It is an opinion echoed by women the world over.

Rendells

PRODUCTS**FOR FEMININE HYGIENE**

RENDELLS PESSARIES
MENSINOLE · SANTRON
SANTRON CONCENTRATE

W. J. RENDELL LTD., HARDWICK HOUSE, 161-5 ROSEBERY AVENUE, LONDON, E.

keep these EUCRYL prices handy

DENTIFRICES —bonus one to the doz. for Window Displays.		Retail Price including Purchase Tax	Net Price to Retailers excl. Purchase Tax
Eucryl Toothpowder	(small)	9d.	5/3
" "	(large)	1/3	8/5
Eucryl Denture Powder	(small)	9d.	5/3
" "	(large)	1/3	8/5
Eucryl Toothpaste	"	1/3	8/5
Eucryl Dental Plate Fixative	(small)	1/- No. P.T.	8/5
" " " "	(large)	2/6 " "	21/-
OTHER LINES			
A.S.K. (Antiseptic Skin Cream)		2/9	18/-
A.R.O. (Anti-rheumatic Ointment)		2/9	18/-
Lysol Disinfectant	(4-ozs.)	—	5/9
" "	(8-ozs.)	—	9/9
" "	(1 Gal.)	—	10/9
LUCE'S PERFUMERY			
Luce's Eau-de-Cologne, and	(1-oz.)	3/4	16/-
Luce's Lavender Water	(2-ozs.)	5/10	28/-
	(4-ozs.)	10/10	52/-
Luce's Flower Perfumes	($\frac{1}{2}$ -oz.)	4/2	20/-
Jersey Lily, Lilac,	(1-oz.)	7/6	36/-
Jersey Heather, Violet, Oregon	(2-ozs.)	12/6	60/-
Luce's Soapless Shampoo	(4-ozs.)	1/10	12/-
Luce's Talcum Powder		2/6	18/-

Minimum Parcels are as follows :

EUCRYL DENTIFRICES :—	30/- net. ex. P.T.—single or assorted.
LYSOL DISINFECTANT :—	6 dozen 4-oz. size, 2 dozen 8-oz. size.
A.S.K. — A.R.O. :—	No minimum.
LUCE'S PERFUMERY :—	Orders over £2 net.) No min. if added to
LUCE'S SHAMPOO :—	1 doz. & free display) a dentifrice order



Eucryl advertising appears regularly in the Press, in the Cinemas, on the railways, where the public can't fail to see it!

EUCRYL LTD. 7-9 Oakley Road, Southampton

PEBOC LTD
MANUFACTURERS OF
VITAMIN D3

Enquiries
to

SALES OFFICE,
629, TOWER BUILDING,
WATER STREET,
LIVERPOOL 3.

LABORATORIES · GREENFORD · MIDOX

PUBLIC GOODWILL

Box's Pills have kept this Flag Flying for over 50 years and the demand now is greater than ever.

P.A.T.A.
PRICES
(Inc. P. Tax)
1/5 3/4
5/5
13/4 & 24/2

BOX'S FAR-FAMED INDIGESTION PILLS
GIANT PILL MANUFACTORY
161 King Street, PLYMOUTH
DOSE
Two pills morning and evening after meals.
3/- per Box, including Postage & Insurance

Box's Pills
W. M. BOX
161 KING STREET
PLYMOUTH

GROUND
DRIED YEAST
MIDGLEY & PARKINSON, LTD.
WARREN WORKS, PUDSEY, LEEDS

TAMPAX
SANITARY PROTECTION
Worn Internally

MILLAMALT

Sole Manufacturers: JEFFREYS, MILLER & CO. LTD (A6500 I.U., D400)
Leyland Mills, Wigan. London Dept. 19 Brookside Rd. N (I.U. PER FL. OZ.)

Malt Extract with added Natural Vitamin

MEDICATED SOAP
SKIN & SCALP AFFECTIONS

SULPHAQUA

BATH CHARGE
RHEUMATISM · GOUT ·

EXPORT ENQUIRIES INVITED

Both products may be recommended with confidence.

REPEAT SALES ASSURED

Immediate delivery through leading Wholesalers or direct from

S. P. CHARGES CO., ST. HELENS, LANCs.

Est. 189

"National" Dispensing Bottles

are Strong, Serviceable and Sure-selling

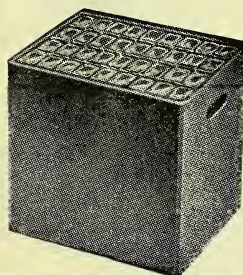
**NEATLY PACKED IN 6 DOZEN
RETURNABLE CARTONS**

- ★ CONVENIENT IN SIZE
- ★ EASY TO HANDLE
- ★ UNIFORM IN QUALITY

SCREW CAPS SUPPLIED IN
WHITE-ENAMELLED METAL



A "NATIONAL" Production




Vials

of "NATIONAL" quality

Ranging in size $\frac{1}{2}$ oz. up to 3 oz.
Plain or teaspoon graduations
Medium and tall types.

MANUFACTURED IN BEST QUALITY
WHITE FLINT, AND PACKED IN
RETURNABLE CARTONS



TRADE  MARK

National Glass Works (York) Ltd.

Works: FISHERGATE, YORK
Telephone: York 3021

London Office: 105 HATTON GARDEN, E.C.1
Telephone: Holborn 2146

WHOLESALE ONLY



*Do you know
we shall be appearing
32,512,705 times this month?*



**Good mornings
begin with
Gillette**

BLUE
Gillette
BLADES

2/8
for ten
(inc P. Tax)

... the sharpest edge in the world

We are a nation of animal-lovers. And animals have inspired the more-than-human characters which make Gillette's new advertising campaign outstanding. Its originality, its vitality and freshness will bring smiles, comments — and rising sales. This new campaign will do your Gillette turnover a world of good. Gillette advertising is nation-wide. Give Gillette pride of place on your counter and in your window.

Trade enquiries to your usual wholesaler or direct to
Gillette Industries Ltd., Great West Road, Isleworth, Middx.

NOW IN FOUR DELIGHTFUL COLOURS



A REALLY LIVELY SALES PROPOSITION

Spontex Toilet Sponges . . . No. 33, 2/9 ... No. 44, 3/8

Spontex Baby Sponge ... Extra fine, extra soft ... 2/5½

Packed in dozens, standard assortment or all one colour

Spontex Cosmetic Sponge ... Natural Shade Only ... 7½d.

Prices include purchase tax

SPONCEL LTD., WOLDHAM RD., BROMLEY, KENT. RAVensbourne 2641



OUTSTANDING in a range of fine products

CANNON RUBBER

HOT WATER BOTTLES

Built for British winters

The "Ripple" and "Dolphin" hot water bottles, built by CANNON RUBBER for British winters will be in demand as much for their attractive design and gay colouring as for their sturdy, durable construction. Packed in smart, hygienic, transparent envelopes these hot water bottles are eminently suitable for counter display. Check your stocks for the winter, now! (Obtainable from your regular wholesaler.)

The Cannon Rubber Manufacturers Ltd. London N.

Ortho announce

Price

Reductions !!

The following retail price reductions will
apply from MARCH 1st:—

Ortho-Gynol

	PRESENT PRICE	NEW PRICE
(WITH APPLICATOR)	8/-	7/6
(TUBE ONLY)	5/9	5/-

Ortho-Creme

(WITH APPLICATOR)	8/-	7/6
(TUBE ONLY)	5/9	5/-

*To safeguard your profit margin—

WHOLESALE price reductions will operate from FEB. 1st

*February
is opportunity month!
For Extra Profit*

feature
Ortho-Gynol & Ortho-Creme
during **FEBRUARY !!!**

Ortho Pharmaceutical Ltd.

HIGH WYCOMBE · BUCKS

Makers of Gynaecic Pharmaceuticals





*If only we
could pack it
we'd make a
packet...*



Box clever- ring up PETRUSHKIN

AND SOLVE YOUR PACKAGING PROBLEMS

We have provided manufacturers in every part of the country with an efficient box-making service for over half-a-century. This experience, plus the advantages of the most modern machines, is at your command today. Incidentally, we have spare capacity just now for making rigid and folding wire-stitched cartons, also small-size round boxes with beaded edges.

M. PETRUSHKIN LTD.

183, BOW ROAD, LONDON, E.3
ADVANCE 3131

**SUPREME
BRANNAN
ACCURACY**

THERMOMETER
Clinical · Household · Industrial

MADE IN ENGLAND
BY
**S. BRANNAN &
SONS LTD.**
London & Cumberland

'ACRIBES'
Regd. Trade Mark

EXPORT BY
**LYALL W.
& CO. LTD.**
52, BAKER
LONDON

COUNTER DEMANDS

*can be met
with*

GARDNER'S

(CABINET PATTERN)
PATENT "RAPID"
SIFTER & MIXER

also ideal for samples
and laboratory use.

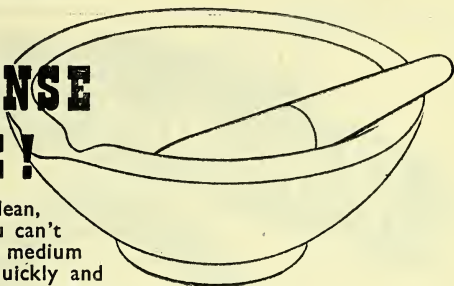
They give the same efficient
sifting and mixing of
powders as the larger capa-
city machine famous throughout the world



Wm. GARDNER & SONS (Gloucester), Ltd.
Bristol Road, Gloucester. 'Phone Glos. 21261 (3 lines)
LONDON OFFICE: 19 Gray's Inn Chambers
High Holborn, W.C.1. 'Phone: CHAncery 1111

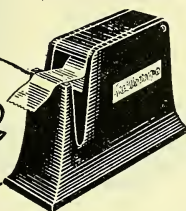
YOU CAN'T DISPENSE WITH SELLOTAPE!

On the other hand, once you've used this clean, modern sealing strip, you'll find that you can't dispense without it! Sellotape is the ideal medium for sealing jars, tins and boxes neatly, quickly and hygienically and it gives perfect protection against torn and stained labels. Prescribe a sample roll of Sellotape for your Dispensary right away.



Sellotape

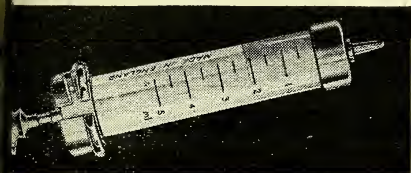
SELF ADHESIVE CELLULOSE TAPE



Available in eight standard widths; colourless or in eight colours. Also supplied in small rolls and dispensers for resale to the public.

RDON & GOTCH LTD., Dept. CD.10, 75/79, Farringdon Street, London, E.C.4

Kaycee



HYPODERMIC SYRINGES

WHOLESALE AND EXPORT ONLY

Illustrated Folder and Price List on application



Manufactured by

KENNETH CASTIGLIONE LTD.

Stratford Works, Manor Park Crescent, Edgware
Middlesex, England. Tel.: EDGware 1636



ALL EXPORT ENQUIRIES TO:

KAYCEE HYPODERMIC SYRINGES LTD.

Stratford Works, Manor Park Crescent, Edgware
Middlesex, England. Tel.: EDGware 1636

Cables: KAYCEE, EDGWARE, ENGLAND

For
CONSISTENT
Purity, Strength
and Quality

POSTLIP

MILL 633

Filter Papers



EVANS, ADLARD & CO. LTD. • WIMBORNE • GLOS.

Reduction in Trade Prices

*Sold only
in SEALED
packets*



SO EASY TO
HANDLE & SELL
THE ONLY RING
ADVERTISED
CONTINUOUSLY
ORDER
NOW

RETAIL
6^d A PACKET
12 — 1 lb. or 10 — 2 lb.
TRADE & WHOLESALE
36 Packets and up at
very generous terms
SEND
FOR
PRICE LISTS
NOW

MADE BY THE MAKERS OF THE FAMOUS SNAP CLOSURES
GRAHAM FARISH LTD.
BROMLEY, KENT. BRISTOL & MANCHESTER



In the Public Eye

The goodwill possessed by any product is the most valuable sales factor to the retailer - especially in the immediate future. Despite severe space restrictions DRUMMER DYES have steadily kept their name in the public's eye through advertising in the National Daily Press, Magazines and from the poster hoardings.

DRUMMER DYES

Also makers of JIFFY DYES
Made by Wm. EDGE &
SONS LTD. - BOLTON

FOR DESTROYING RATS and MICE
HALLER'S EXTRACT OF SQUIRREL
is always in demand as it is a standard
product, controlled by Bio-assay tests

For the destruction of
Beetles, Cockroaches, Crickets, etc.
USE

"DANZO BEETLE POWDER"

"CADOG"

Parasiticide and Insecticide in liquid form
destroys all kinds of noxious insects:—
Bugs, Lice, Fleas, Moths, etc.

Address all enquiries for preparations for
destruction of Domestic Pests to:—

HALLER LABORATORIES, LIMITED
325, BOROUGHS HIGH STREET, LONDON, S.W.



Who...me?

Yes, you, Sir. You've helped C.R.S to reach a weekly collection of nearly 1,200,000 empty containers, but to meet national requirements we need at least 250,000 more every week. *That's five more empty containers from every trader on whom C.R.S calls, and we're counting on you, and thousands like you, for a bumper response.*

The return of empty containers is saving the nation thousands of tons of precious coal, timber, wood-pulp, metal and other essential raw materials . . . Remember that when the C.R.S van calls!

Container Recovery Service

S.P.D. LIMITED, 3/5 SALISBURY SQUARE, LONDON, E.C.4

RS 53B-683

The Easy Way TO INVEST MONEY

Buy National Savings Certificates the easy way—it is simple, automatic and without additional charge to you. You just sign the special Banker's Order form which your Bank Manager can now give you, authorising either a single purchase of National Savings Certificates, or a regular monthly investment. That is all you have to do—and with a stroke of the pen you will be helped to secure your own future, and your country's prosperity. You can now hold 1,000 10/- units of the new certificate, and in ten years this £500 will have grown to £650 free of tax. Secure for yourself a profitable gilt-edged investment by calling on your Bank Manager.

SAFE—The Bank Way

Issued by the National Savings Committee

ZEAL

Clinicals

The Choice
of Experts

BRITISH
MADE

NO HIGHER
IN PRICE THAN
NONDESCRIPT
MAKES

Also Household, Bath
and Works Thermometers,
the best of their kind



G. H. ZEAL LTD.
 LOMBARD RD., MORDEN RD.,
 LONDON, S.W.19
 Phone: Liberty 2283-45

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LAMINATED
and
ADVERTISING
TAPES**



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*Self-Adhesive Tapes,
Plain or Printed in Cellulos
Cloth, Paper, Glass, Fibre, et*

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Brochure free on request

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92-94 NEWMAN STREET, LONDON,
MUSEUM 4215-6-7

Tintex

**THE WORLD'S
LARGEST-SELLING
HOME DYE**

CHEMISTS AGENTS :—

Thos. Chrissy & Co., Ltd.
Farnham, Surrey

FOR

PATENTS

DRESSINGS

PILLS & TABLETS

DANGEROUS DRUGS

DRUGS & GALENICALS

ETHICAL PROPRIETARIES

SMITH & HILL
(Chemists) Ltd.

SIDNEY ST., SHEFFIELD, I
Phone : 24321



1949 SALES PLAN

for

SECTO

EXTRA POWER.

D.D.T.

"THE SENIOR BRITISH INSECTICIDE"

A best seller for 42 years

Extra Power brings Extra Profits

Our plan, which includes a strong advertising campaign, will make SECTO far and away the most profitable insecticide in addition to being the quickest seller. Representatives will call shortly with 1949 sales plan; or send for details of **UNRIVALLED** bonus and discount terms.

A concise survey of the Therapeutic Field covered by M.

*With the marked increase of Medical Work under the
National Health Service Act, the time-saving writing
of & M.O. is appreciated by the busy practitioner :*

MAGNESIA OIL is a most valuable medicine because it replaces unpalatable laxatives of the older type, which are as unpleasant as they are harsh in action.

MAGNESIA OIL is pure magnesia with ultra-refined laxative medicinal petroleum oil in an emulsion of creamy consistency — bland in both taste and action. The association of these two valuable antacid and laxative medicines is rational and scientific, as acidity and constipation almost always occur together.

MAGNESIA OIL is not habit-forming and does not require to have the dose increased. It does not gripe, has no violent action and no unpleasant reaction.

Magnesia is antacid, absorbent, and an enemy to unfriendly bacteria. The oil is aperient and very soothing to mucous membranes.

MAGNESIA OIL neutralizes the acids of the mouth which lead to dental decay, corrects acidity in the system by neutralizing its unwelcome excess of acids in the stomach and bowels and eliminates mischief-making toxins.

MAGNESIA OIL may be taken with safety at all ages. It contains nothing whatever of an irritating character.

MAGNESIA OIL is really pleasant to take. It has no marked flavour, and no after-taste — unlike some other medicines it does not "repel."

**The Greatest Health Insurance
is freedom from excess acids in the system
and a clean Alimentary Canal.**


M.O. Ensures Both

MUSTEROLE FINE PRODUCTS CO. LTD., BROOK HOUSE, PARK LANE, LONDON, W.1.

Sole Distributors: THOMAS CHRISTY & CO. LTD., FARNHAM, SURREY.



Nipits
THE MEDICATED
PASTILLES
FOR VOICE, THROAT & CHEST
TEASDALE & CO. LTD., CARLISLE



SURE-SELLING STOCK
OVER 150 YEARS REPUTATION
KEARSLEY
THE ORIGINAL
WIDOW WELCH'S PILLS
9d. BOX PROFIT by ordering 1 dozen (13). It pays to push this.
C. & G. KEARSLEY LTD.
71 Dartmouth Rd., London, S.E. 1
Est. 1787

TEL.: CANONBURY 3401

BUCKLEY BOWKER TABLET CO. LTD.
PARKFIELD STREET, LONDON, N.1

OVER 40 YEARS' PRACTICAL EXPERIENCE

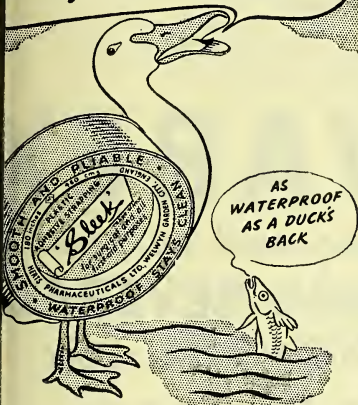
COMPRESSED TABLETS

EVERY KIND AND SHAPE,
BULK OR PACKED, UP TO
1½" SQUARE OR ROUND.

PRIVATE FORMULAS COMPOUNDED BY EXPERTS

We have specialised for many years in— **CONTRACEPTIVES** (Special Formulas), **TABLETS** and **JELLIES**

Lively Sales Aids



unique qualities of 'SLEEK' plastic adhesive strapping give it an immediate appeal to your customers. By displaying and introducing it, you will be earning permanent goodwill.

The attractive showcards which are available; they will help you sell 'SLEEK' more quickly. We have also produced 'Sleek' Sales Manual which will give you and your staff all the information you need about the product. 'SLEEK' will give you a quick turnover. Plentiful supplies are available.

5 yard spools... Retail 2/- each
5 yard spools... Retail 3/6 each

Sleek'

TRADE MARK

PLASTIC ADHESIVE STRAPPING

Pharmaceuticals Ltd., Welwyn Gdn. City, Herts.
Telephone: Wel. Garden 3333 S15

Announcing large size Bisma-Rex

Now introduced in response to popular demand, 16-oz. size BISMA-REX, Rexall's famous Stomach Powder.



New Large Size: Retail 8/3 Regular Pack: Retail 2/8
(Great Britain & N. Ireland)

If there is no Rexall Agency in your district, a postcard inquiry will receive every attention and entail no obligation on your part.

REXALL DRUG COMPANY LTD.
KIRKEWHITE STREET, NOTTINGHAM

It's an **EDME** *product*

BEVAREX

A nourishing and sustaining

MALT FOOD BEVERAGE

of OUTSTANDING merit

Retails at 1/8 per 6 oz. tin

Wholesale 13/6 doz.

Showcards
available
further
particulars
from

EDME LTD., IMPERIAL HOUSE, REGENT STREET, W

Telephone: REGent 5563-4

Grams: "EDME," Piccy, London

Works: MISTLEY, ESS

Always supply

MENE X

FOR WOMEN WHO PREFER

Soluble
TOWELS

Pre-stretched, detachable loops,
waterproof backs

ROBINSON & SONS LTD. CHESTERFIELD & LONDON

also makers of the famous

MENE

— popular for over 50 years

• JOHN KNOX • JOHN KNOX • JOHN KNOX

JOHN KNOX • JOHN KNOX • JOHN KNOX • JOHN KNOX • JOHN KNOX • JOHN KNOX • JOHN KNOX • JOHN KNOX • JOHN KNOX • JOHN KNOX

*A Line You Can Sell With
Confidence*

**John Knox
Rapid Cold and
'Flu Mixture**

for

Head Colds, Influenza and
all Feverish Conditions

Retail: 1/8 per bottle (Inc. Tax)

Trade: 10/- per doz., plus 33½ P.T.
3 doz. 9/6 12 doz. 9/-

JOHN KNOX (STOKE-ON-TRENT) LTD

Jaynox Works,
King Street,
Fenton,
Stoke-on-Trent.

PATA

John Knox
(Midland) Ltd.,
26/38, Dean St.,
Birmingham, 5.

• JOHN KNOX • JOHN KNOX • JOHN KNOX

BROVON

Asthma

INHALANT

Brovon Inhalant combines the rapid action of adrenaline with the slower but more persistent action of atropine methylnitrate and papaverine. An excellent example of synergism, it has proved to be an ideal combination for the relief of asthma and the bronchiolar spasm often present in chronic bronchitis and emphysema.

Already well recognised for the relief of asthma, Brovon Inhalant is being widely advertised to the medical profession. It is a reputable preparation for which pharmacists may expect an ever-increasing demand.

Supplied in bottles of $\frac{1}{2}$ oz. 7/6; 1 oz. 13/6; 2 oz. 26/3; 4oz. 51/- Exempt from purchase tax

BEST RESULTS ARE USUALLY OBTAINED BY INHALATION FROM A DEEDON INHALER



MOORE MEDICINAL PRODUCTS LTD
BERDEEN LONDON OFFICE: 64 GLOUCESTER PLACE, W.1. LONDON
WELBECK 5718/9

+ Stops

SCURF

Dr. Page-Barker's

Scurf & Dandruff Lotion

A Guarantee with every Bottle.



Sole Distributors to the Chemists' Trade—
THOS. CHRISTY & CO. LTD.
FARNHAM, SURREY.

Sole Manufacturers and Proprietors—

ILEX SUPPLY CO., LTD. 252b. GRAY'S INN ROAD, W.C.1

Trade 20/- doz.
Plus Tax ONE THIRD
Retail 3/4 **PATA**

★ Ask for Showcard

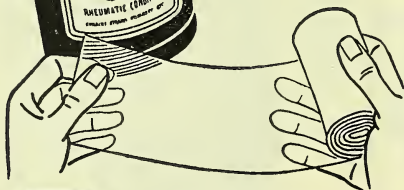
Methyl Salicylate

(OIL OF WINTERGREEN)
ADMINISTERED BY BANDAGE

A REVOLUTIONARY
treatment for
RHEUMATIC
Conditions

Polyestol Bandage is a remarkable new invention which, by its *continuous* and *cumulative* introduction of Salicylic Acid into the system, offers speedy and very effective relief in cases of Fibrositis, Neuritis, Sciatica, Lumbago, Sprains,

Strains and kindred ailments. It is at least ten times more efficacious than Oil of Wintergreen Ointments and Liniments. Salicylic Acid can be found in the urine as long as 48 hours after the Bandage is removed. Be ready to meet the enormous demand which is expected for this outstanding product. Retail price 6/9 (inc. P.T.)



POLYESTOL
TRANSPARENT
Pain-Relieving
BANDAGE
TYPE MS

Trade Terms and full particulars from
your usual Wholesaler or direct from:

Manufacturers and Patentees

POLYESTOL LIMITED
4-5 Warwick Court, High Holborn, W.C.1

Scientific

STOCK THIS TOOTH PASTE



All enquiries and orders to:—

DENTOMINT LIMITED

14 BLENHEIM TERRACE
ST. JOHN'S WOOD, LONDON, N.W.9

Telephone: MAIDA VALE 8061/2

KOMPO
FOR
COLDS

Manufactured only by

J. F. WHITE & CO., LTD.

Lovington Laboratory, Benson Street, Leamington

Worth selling!
P.A.T.

FENOLIN
FLUID

ELDON
Vaporiser

Leoricine

FOR WHOOPING COUGH

HALL FORSTER & CO. LTD.,
NEWCASTLE UPON TYNE

FOR COUGH
AND COLIC

A COMBINATION of qualities

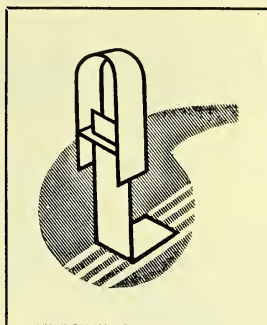


claims of 'Dettol' do not rest on
single quality desirable in an anti-
septic, but rather upon the combination
of several essential properties. It can
be used at fully effective strengths with
safety; that is, without risk of poisoning,
discomfort or damage to tissue. It
possesses a high bactericidal potency in
the presence of blood, it is stable, and
readily available in use.

DETTOL'

THE MODERN ANTISEPTIC

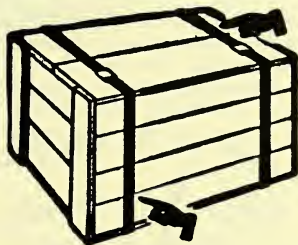
LEITCH & COLMAN LTD., HULL AND LONDON
PHARMACEUTICAL DEPT., (HULL)



**ARCHWAY
LABORATORIES
LTD**
MANUFACTURING CHEMISTS
182 Albion Rd., London, N.16
CLISSOLD 7595

USE :—

Wire Bands
BANDING SYSTEM
*It's speedy! It's simple!!
Above all—It's Secure!!!*



THESE BANDS WILL ENSURE YOUR
GOODS ARE DELIVERED INTACT

Wire Bands
114, LANCEFIELD STREET, LONDON, W.10
Ladbroke 0725

SOLD ONLY THROUGH CHEMISTS**PATA.**

Lantigen

SERIES OF DISSOLVED ORAL VACCINES

LANTIGEN Series of Dissolved Oral Vaccines, after 12 years' success in Australia, is now available here.

It is on the P.A.T.A. list, and backed by heavy National Advertising, there is ever increasing demand. Selling price, including Pur. Tax, 25/8d. per bottle. Descriptive leaflets and terms on request.

LANTIGEN 'A' for the Common Cold.

LANTIGEN 'B' for Catarrh and Bronchitis.

LANTIGEN 'C' for Rheumatism or germ-born or

LANTIGEN 'D' for Staphylococcal Skin Infection

LANTIGEN 'E' for Hay Fever and Asthma.

LANTIGEN 'F' for Whooping Cough.

Supplies direct from Sole Distributors:

J. C. GAMBLE & CO. LTD., 211, BLACKFRIARS ROAD, LONDON, S.E.
or from Wholesale Chemists.

Manufactured by: **LANTIGEN (ENGLAND) LTD., BAGSHOT, SURREY**

DESBY'S

pure
HONEY, GLYCERINE & LEMON
Cough Linctus

a popular product at a popular price, made from real Lemon Juice, pure Honey and Glycerine. The ingredients speak for themselves—you cannot afford not to stock this quick-selling line.

*Ask also for particulars
of our other pure
food products*

Sole
Distributors
in Scotland
Pharmaceutical
Distributors
Ltd., 187, St.
Vincent Street,
Glasgow, C.2.

**STOCK
and
DISPLAY**
— it sells
itself

Manufactured by

D. Bee Food Products Ltd., New Charles St., Goswell Rd., E.C.1

Winter Sellers

LOVELUCK'S

LANOLINE BALM

Retail 1/6. Display Outers 35/- in
Tax.

L E C

ANTISEPTIC GARGLE

Retail 2/3 I.P.T.

4 oz. Bottles

L E C

BROMPTON LOZENGE

Retail 1/6 I.P.T.

Attractive 3-colour Cartons

Show Material Available with all line

Professionally Elegant

Commercially attractive

FULL TRADE DISCOUNTS AND BONUS
TERMS ON APPLICATION

LOVELUCK EDWARDS & CO.

432/438/440 GARRATT LANE - S.W.1

FOR EVERY MONTH OF THE YEAR

"ZEMS" HERBAL LICORICE TABLETS



THE BEST MEDICATED TABLETS FOR
COUGHS, COLDS, ASTHMA, BRONCHITIS, ETC.

Supplies may be obtained



from C.F. Wholesale Houses

ZEMS LTD

718-724 Seven Sisters Road, London, N.15

Telephone: STAMFORD HILL 6658-9

Question of the Hour

**"what can you
recommend for a
Bad Cold"**

During the winter months, pharmacists are constantly being asked to supply a good remedy for an existing cold. Thousands of chemists recommend Serocalcin with confidence in the knowledge that it gives consistently satisfactory results in the treatment of the common cold.

The demand for Serocalcin is great, but stocks are ample at present. Please order early and thus ensure a good delivery service.

Pharmacists are reminded that the sole selling agents for Serocalcin in the United Kingdom are J. C. Eno Ltd., Watford, Herts. (Watford 7761) to whom all orders and enquiries should be sent.



SEROCALCIN

PATA

FOR THE PREVENTION AND TREATMENT OF COLD

HARWOODS LABORATORIES LTD WATFORD HERTS



Westbrook Lanolin Cosmetics

Westbrook
PRODUCT

Twelve

Handmaid
hand protective cream

WESTBROOK LANOLIN CO.
(Subsidiary of Woolcombers Ltd.)
BRADFORD.

For **MULTIPLE DEFICIENCIES**— **A single supplement** **of Vitamins and Minerals**

All restricted diets call for special care to guard against limitation of essential nutrients. Cases still, unfortunately, occur where patients on roughage-free diets become depleted of vitamin C and even develop signs of scurvy.

Specific deficiencies can be avoided by the use of the appropriate preparations of single vitamins or minerals, e.g., Ascorvel for vitamin C, Betavel for vitamin B₁, iron for hypochromic anaemia and so on—or, to prevent multiple deficiencies, a single supplement of vitamins and minerals such as Complevite may be employed.

COMPLEVITE

The recommended adults daily dose provides:

vitamin A	2,000 i.u.	vitamin C	20 mg.	iodine	} not less than 10 p.p.m. each
vitamin D	300 i.u.	calc. phosph.	450 mg.	manganese	
vitamin B ₁	0.6 mg.	ferr. sulph. exsic.	204 mg.	copper	

Retail cost of 20 days' supply (120 tablets), 5/- Trade discount 33 1/3 %.

Vitamins Limited
Upper Mall, London. W.6



Firm Favourites!

with every member of the family

CUTICURA PREPARATIONS

(MEDICINAL AND TOILET)

SOAP . OINTMENT

TALCUM POWDER . SHAVING STICK

These grand aids for skin-care have been giving confidence and satisfaction for over 65 years...

Profits are good — Advertising consistent and widespread. Sales-promoting window displays always at your service.

The following attractive products, each with a universal appeal, will shortly be added to the popular Cuticura Range:

HAND CREAM . BABY OIL

SHAVING CREAM . LIQUID ANTISEPTIC

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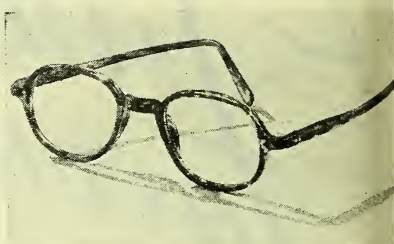
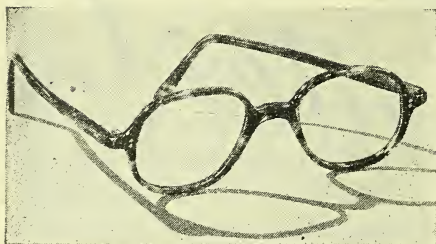
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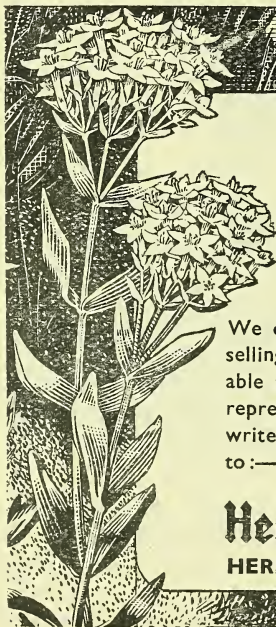
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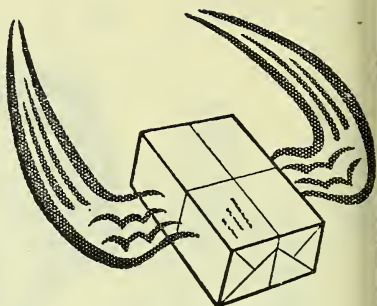
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CHEMIST AND DRUGGIST

for RETAILER—WHOLESALE—MANUFACTURER

JANUARY 29, 1949

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NEWS OF THE WEEK

D. Authorities Withdrawn.—The Secretary has withdrawn from John Ar Matthew, M.R.C.S., L.R.C.P., M.B., Place, Sandy Lane, Charlton Kings, tenham, the authorities granted him regulations made under the Dangerous Drugs Act, 1920.

Fertilisers Decontrolled.—The President of the Board of Trade has made an order (the Control of Fertilisers (Revocation) Order, 1949, which came into operation on January 27) revoking the remaining orders controlling the production, distribution, acquisition and disposal of fertilisers.

Therapeutic Trials Committee.—In his inaugural address as professor of materia medica at Dundee medical school on January 21, Professor Robert B. Hunter, speaking on "The Influence of Science on the Art of Therapeutics," said there was great need for a therapeutic trials committee which would be responsible for the registration of all new drugs.

Insurance Benefits for New Entrants.—Employed persons who became insured under the National Insurance Scheme for

the first time on July 5, 1948, became eligible for the following on January 3: Unemployment benefit, sickness benefit, maternity grant and attendance allowance. Self-employed persons are eligible for sickness benefit, maternity grant and attendance allowance, and non-employed persons for maternity grant and attendance allowance.

National Formulary, 1949.—A standard prescribers' formulary prepared by a joint committee consisting of representatives of the Pharmaceutical Society, the British Medical Association, the Ministry of Health, the Service departments, the Insurance Acts Committee and the Royal College of Physicians is to be published on February 12 (price 2s. 6d. post free) under the title "The National Formulary, 1949." It is to be published jointly by the Pharmaceutical Society and the British Medical Association.

Anglo-Finnish Trade.—Members of a Finnish Trade Delegation visiting Britain for discussions with the Board of Trade were entertained to luncheon on January

18 by the Anglo-Finnish section of the London Chamber of Commerce. The chairman of the Section (Mr. L. G. C. Neame) presided.

Hospital Managements' Offer.—The secretary of the Guild of Public Pharmacists states that the salary scales offered by the hospital managements (see *C & D.*, January 22, p. 106) have been amended as follows:—Senior assistants appointed from the grade of pharmacist, and deputy chief pharmacists appointed from the grade of senior assistant pharmacist, each to receive an immediate increase of £50 (instead of two increments) on their previous salary; deputy chief pharmacists appointed from the grade of pharmacist to receive an immediate increase of £100 (instead of four increments).

Productivity Teams to Visit U.S.A.—Arrangements for a number of productivity teams to visit the United States under the auspices of the Anglo-American Council on Productivity in order to study factory administration, organisation, layout methods and operating conditions have recently been announced. The Visits Committee (British Section) of the Council, 21 Tothill Street, London, S.W.1, is to supervise the scheduling of visits, the selection of teams, the completion of travel arrangements and the reporting and dissemination of results. The United States Section is to supervise arrangements in the United States. About fifty teams are expected to travel up to April 1950 and a larger number in the following year. The first team is to leave in the near future.

Lower Death Rates.—The total number of deaths registered in England and Wales during 1948 was 470,282 (the lowest for eighteen years, despite an increase of some $3\frac{1}{2}$ millions in the population), representing a record low death-rate of 10.8 per 1,000 total population (against the previous lowest rate of 11.4 in 1945 and 1930). There were 26,635 deaths of children under one year of age in 1948, giving a rate of thirty-four per 1,000 related live births (the first time the annual rate has fallen below 40). Stillbirths numbered 18,415, giving a rate of 23.1 per 1,000 live and still births (against the previous lowest, 24.1, in 1947). Deaths resulting from diphtheria recorded in the 126 great towns (covering about half the population of England and Wales) in 1948 totalled 100, the lowest on record. Notifications of cases numbered 5,182, also a new low record.

LOCAL NEWS

Works Party.—The staff of O. M. S. man, Ltd., Southall, were guests of the company at a party held at Southall on January 6.

Dental Students at Factory.—Delegates at a British Dental Students' Association conference in Liverpool visited the Speke headquarters of Evans Medical Supplies, Ltd., recently.

Pricing Bureau Title Change.—Lancashire No. 1 Prescription Pricing Bureau Congregational Buildings, 31A Drayco Street, Bolton (Telephone: Bolton 7025) the new title and address of the former Lancashire Prescription Bureau (No. Area), Bolton.

Lancashire Lecture on Hypochlorite.—At a meeting of the North-east Lancashire Branch of the Pharmaceutical Society on January 17, Mr. A. H. Walters (chief bacteriologist, Milton, Ltd.,) spoke of "Hypochlorite in the Combat of Cro Infection." Mr. T. S. Nowell was in the chair.

Blackpool Children's Party.—The programme at a children's party held by the Junior Section of the Blackpool Branch of the Pharmaceutical Society on January 17 included a Punch and Judy show, a tea and a visit from Father Christmas who distributed chocolates, sweets and fruit that had been contributed by members.

Dundee Social Event.—There were about 240 guests at the annual whist dinner and dance of the Dundee and East and Central Scottish Branch of the Pharmaceutical Society on January 19. Mr. Graham Mitchell presided and acted M.C., and the guests included Dr. David McCall (the Society's resident secretary, Scotland) and Mrs. McCall. In the whist drive Mr. M. Machonochie acted as car master, and the prizes were presented by Mrs. Mitchell.

Southampton Dinner.—There were nearly 150 members and guests present when the Southampton Branch of the Pharmaceutical Society held its first annual dinner dance since the war, on January 14. Mr. W. Marshall Cox (president) said the success of the event should encourage the committee to repeat the mixture on future occasions with an even larger dose. On behalf of the branch he thanked Mr. K. F. Young (secretary) for his work. A toast to the president and his wife was proposed by Mr. E. T. Steel.

Messrs. J. M. Dowty (chairman, Southampton Pharmaceutical Committee) and B. Johnson (president, Portsmouth branch) also spoke.

Medicines from Munitions.—Addressing the Glasgow and South-western Scottish branch of the Pharmaceutical Society on "Medicines from Munitions" Glasgow on January 12, Dr. G. R. Boyes (Allen & Hanburys, Ltd.) described the use of D.F.P., a potent inhibitor of cholinesterase, in the treatment of glaucoma, asthenia gravis and paralytic ileus. Mercaprol (BAL), originally developed as an antidote to Lewisite, was, he said, effective as an antidote to the toxic effects of overdosage by organic arsenical, gold, and mercury compounds, and might have the value as an antidote to poisoning by other heavy metals. Dr. Boyes reviewed developments in the application of radioactive isotopes to the investigation of physiological problems and in the treatment of malignant diseases.

Harrow Employee Pharmacists.—About forty employee pharmacists, representing all branches of pharmacy, were present at the inaugural meeting of the Harrow Employee Pharmacists' Association on January 20. After discussion, aims and rules of the new organisation were agreed; it is to be open to all employee pharmacists, and is intended to protect and promote their interests and to secure adequate representation on all appropriate committees. A local register of employee pharmacists is to be compiled with a view to its later incorporation into national register. It was stated that the association was corresponding with similar non-political and non-trade-union associations. Members of the interim committee were unanimously re-elected. Mr. Baker, 108 Regal Way, Harrow, is secretary.

Newport Annual Dinner.—The annual dinner and ball of the Newport and Monmouthshire Chemists' Association was held at Newport on January 20. "The Pharmaceutical Society" was proposed by Mr. Rees (president of the Association). Responding, Mr. H. Clement Shaw (president of the Society) said the Society should be better known and more appreciated by the outside world. By remaining true to their profession pharmacists could "come out all right" and help the younger generation to a better pharmaceutical life. Other speakers were Mrs. R. Peacock and Messrs. C. A. Nyblad

(vice-president of the Association), D. D. Thomas and J. E. Edwards (president, Cardiff Pharmacists' Association). Guests at the dinner included representatives of the medical profession, the local National Health Service Executive Council and the wholesale trade.

Walthamstow N.H.S. Discussion.—At a meeting of the Walthamstow Branch of the National Pharmaceutical Union on January 18, Mr. S. T. James in the chair, Mr. J. Wright, Ph.C. (superintendent, National Health Service department, N.P.U.), presented a "National Health Service Miscellany." He dealt first with the various appliances likely to be required by a patient: those which could be supplied from the pharmacy, the more complicated appliances supplied through hospitals, and maternity outfits supplied through midwives. He then discussed fees for urgent prescriptions and for rota services, payment of chemists' accounts, and the method of sorting prescriptions. The alternative to the system of testing dispensing (which was to be revived in April), he said, was control through Food and Drugs Act inspectors, involving possible appearances in a magistrate's court and undesirable publicity. The general public might then often tend to overestimate the seriousness of trifling discrepancies. Among those who took part in discussion were Messrs. W. Gooch, S. T. James, R. W. S. Macfadzean, D. Mathieson, H. L. Moppett, and E. Willcocks.



GUEST AT SALES LUNCHEON.—During a break in their annual sales conference, held recently, representatives of Johnson & Johnson (Great Britain), Ltd., talk with Mr. H. N. Linstead (secretary of the Pharmaceutical Society). Left to right: Mr. J. F. Brooke (managing director), Mr. Linstead, Mr. Pritchard, Mr. N. S. Griffiths (general sales manager) and Mr. J. K. McPhie (home sales manager).

OVERSEAS NEWS

Flour Process Prohibited in U.S.A.—

The use of nitrogen trichloride to bleach flour is to cease in the U.S.A. from August 1 following an inquiry under the U.S. Food and Drug Administration. Chlorine dioxide is to be allowed instead. [Sir Edward Mellanby showed at the National Institute for Medical Research, Mill Hill, London, that flour treated with nitrogen trichloride (agene) produced hysteria in dogs (see *C. & D.*, 1946.II.816-17)].

Veterinary Inoculation in Africa.—

Speaking in Cardiff recently of the work done in Africa by the veterinary organisation of the Colonial Office, Mr. D. R. Rees-Williams, M.P. (Parliamentary Under-Secretary of State for the Colonies) said that in Nigeria upwards of 2,000,000 doses of vaccine were prepared and used annually, and that in East and West Africa some 3,000,000 head of cattle were immunised yearly against rinderpest. Injections against anthrax, blackquarter, and intestinal parasites (in young stock), were usually made at the same time. Hundreds of thousands of doses of attenuated goat virus against rinderpest had been sent to Egypt from Northern Nigeria in past months.

Influenza Incidence in Europe.—

The results of an investigation conducted recently by the Division of Epidemiology of the World Health Organisation, Geneva, show that influenza appeared to be spreading in Europe, though in a mild form. Of the twelve Governments giving information, Sweden, Norway, Finland and Denmark reported no abnormal rise in the incidence of the disease compared with figures for 1948. In the Netherlands, however, influenza had reached epidemic proportions in the southern provinces. In Austria, several thousand cases had been noted, while the U.S. Zone in Germany, Hungary and Spain had not been affected. Isolated cases of influenza had been observed in England though there was no suggestion of epidemic prevalence. Turkey announced small localised outbreaks. In Italy, where the disease appeared in the first half of November 1948, it was receding. In eastern and northern parts of France it still prevailed in a mild clinical form. The virus mainly responsible for the outbreaks is probably closely related to virus A, though identification experiments at the World Influenza Centre laboratory, Hampstead, are still in progress.

LEGAL REPORTS

Warranty Appeal Rejected.—

A hearing an appeal by David Pome manufacturing chemist, trading as Pom Products, 133 Stepney Green, London, E.1, against a conviction at Wells borough (at which he was fined £5), having given a false warranty in respect packets of saccharin tablets, the North quarter sessions appeals committee disallowed the appeal. Appellant was ordered to pay £21 costs.

D.D. Entries Not Made.—

For supplying thirteen $\frac{1}{4}$ -gr. morphine tablets to unauthorised person, and for failing enter particulars in his Dangerous Drugs register, George Henry Exley, M.P.S., Church Road, Roberttown, Heckmondwicks, Yorks, was fined a total of £15 at Debury recently. George Leonard Mountbus conductor, Mirfield, was fined £5, being in unlawful possession of the tablets. Both defendants were ordered to pay £2 10s. costs.

Appeal Allowed.—

Before London Sessions Appeals Committee on January 27, P. H. Galloway, Ltd., Walworth Road, London, S.E.17, appealed against a conviction and fine of £5, with £50 costs imposed on the company at Old Street magistrates' court, for supplying pepper alleged to be not of the substance demanded by the purchaser. The appeal was allowed. The Old Street magistrates had made it clear that he was satisfied Messrs. Galloway had bought and sold the pepper under a warranty, but he held that he could not be sure that one of the company's workmen had not put the flour (the cause of the action) into the pepper. Mr. James Frederick Galloway (manager/director of the company) said that one of white pepper had been bought by the company under warranty from Charles Weaver, Great Tower Street, London, E.C.3. The pepper remained in sacks until wanted, and there was no reason to believe that it was otherwise than as received. The company had been able to trace only one other consignment; this had been analysed, and the certificate showed that it did not contain flour. The committee, giving its decision, stated that members were not satisfied that the offer was due to any act on the part of the company within the meaning of the statute. The appeal was allowed and conviction and fine were quashed. An order was made as to costs.

TOPICAL REFLECTIONS

le, National and International

The editorial comment on the interim report to the Economic Co-operation Administration (p. 114) brings into focus the aspects for national and international. During the past few days the chairmen of four leading banks have issued annual addresses; and all refer, as is customary, to the financial aspect of British commerce. The composite picture thus presented is a grave one. Internal and external trade are so closely linked that any one is likely to be merely an approximation. But two facts stand out prominently. One is the very high cost of labour in terms of productivity: the other is the handicap of burdensome taxation and high public expenditure. In one of these addresses we read: "... there must—on the will—be ample scope for over-economies in public spending." In another address production-costs and taxation are dealt with thus: "... one would like to see a wider and more general application of the fact that our costs of production must come down or, alternatively, any increase in costs must be covered by more than a proportionate increase in production. Cannot some incentive be provided by a lightening of the burden of taxation? After all, taxation which ensures that there is little reward for effort or achievement, coupled with conditions which exact little penalty for idleness, is hardly likely to produce a productivity keyed up for a prolonged industrial boom."

English Herbals

Nothing comparable with Miss Lothian's address at the January evening meeting in London of the Pharmaceutical Society (p. 114) has been heard, if memory serves, since Dr. T. A. Sprague lectured on early English herbals in the same building in 1937. It was a happy idea of the Society's librarian of bringing together the names of John Gerard, Thomas Johnson and John Parkinson, each of whom had, long ago, a garden only about a mile from what is now Bloomsbury Square; and the experience placed on view added to the interest of the address. I find it difficult to sum up much respect for Gerard, whose entry as an author has been condemned by Dr. Agnes Arber in her book on herbals and, more forcibly, by Dr. C. E. Rieu in his recent treatise on English

naturalists. "Gerard simply adopted Priest's translation," Dr. Arber writes, "completed it, and published it as his own, merely altering the arrangement from that of Dodoens to that of de l'Obel. He adds insult to injury by gratuitously remarking, in an address to the reader at the beginning of the herbal, that 'Doctor Priest, one of our London Colledge, hath (as I heard) translated the last edition of Dodoænus, which meant to publish the same; but being prevented by death, his translation likewise perished.'" None of these three herbalists, however, is on the level of William Turner, "the father of British botany" and author of a herbal published in three instalments in 1551-68. William Cole's quaint book on simpling (1656), referred to by the lecturer, is more attractive than most works of that class.

National Health Service Reviewed

Mr. Mallinson's services to pharmacy under the National Health Insurance Act and its successor are so outstanding that a review of either Act by him is always valuable, even though he occasionally fails to carry us with him. His recent address in North London (p. 108) is, as usual, authoritative and persuasive. It may be that Mr. Mallinson and his advisers have not fully realised the annoyance caused to panel chemists by delays in pricing dispensed prescriptions. But it must be added that the negotiating committee of the National Pharmaceutical Union is evidently seeking to ascertain whether the present method of pricing such prescriptions is the fairest that can be devised, and to take measures accordingly. (On p. 98 of the same issue it is reported that in Scotland "some concern" is felt in official quarters about the pricing of N.H.S. prescriptions: more may be heard of this matter.) On one point the speaker's explanation in North London should silence objectors. If Parliament insists on proof that dispensing is satisfactorily carried out, let us have the present testing scheme or one resembling it. It is useless for pharmacists to protest that their dignity suffers, for the alternative to a testing system might be another campaign of police-court proceedings like those of the year 1923. The malevolence of certain municipal authorities during that year made an impression on many of us which the intervening period has not sufficed to remove.

Xrayser

NEW COMPANIES

PERKINS & CO. (PRIVATE CHEMISTS), LTD. (P.C.).—Capital £3,100. Objects and other particulars are similar to Anthony Tate (Private Chemists), Ltd. (see below).

KOKO, LTD. (P.C.).—Capital £1,000. To carry on the business of manufacturing and general chemists, drug merchants, etc. Ada F. Earl, Charles W. Tagan and Albert F. McEvoy, directors. R.O.: 3 Fleet Lane, London, E.C.4.

JUKES, LTD. (P.C.).—Capital £2,000. To carry on the business of wholesale, retail, manufacturing pharmaceutical and general chemists, etc. Cecil F. Smith and Douglas G. Weaver, M.P.S., directors. R.O.: 20 Wote Street, Basingstoke.

MOORE & BARRETT, LTD. (P.C.).—Capital £3,000. To acquire the business of analytical chemists and petroleum technologists now carried on by Moore & Barrett, at 144 Bramhall Lane, Stockport. Phillip H. Moore and James Barrett, directors.

CAMPBELLS CHEMISTS, LTD. (P.C.).—Capital £1,000. To carry on the business of chemists, druggists, opticians, etc. First directors are not named. Solicitors: George W. Bower & Son, 23 Old Buildings, London, W.C.2.

LANGTON & RATCLIFFE, LTD. (P.C.).—Capital £2,000. To carry on the business of chemists, druggists, opticians, etc. Bernard S. Langton, M.P.S., and John C. Ratcliffe, M.P.S., directors. R.O.: 63 Bury New Road, Manchester, 8.

ANTHONY TATE (PRIVATE CHEMISTS), LTD. (P.C.).—Capital £3,100. To carry on the business of chemists, druggists, etc. Herbert F. Simnett, M.P.S. and Gordon Beaton, M.P.S., directors. R.O.: 39 Grosvenor Gardens, London, S.W.1.

JACKSON'S (TENBURY), LTD. (P.C.).—Capital £1,000. To carry on the business of pharmaceutical and general chemists, druggists and dealers in photographic requisites, etc. Grace Jackson and Cecil Harrison, M.P.S., directors. R.O.: 18 Teme Street, Tenbury, Worcs.

BEE CHEMISTS, LTD. (P.C.).—Capital £2,500. To carry on the business of manufacturers of and wholesale and retail dealers in chemicals, drugs, etc. Sydney G. Brooks, Phyllis Brooks and Adolph Linsker, directors. R.O.: 256 Wick Road, London, E.9.

IRISH OXYGEN CO., LTD. (P.C.).—Capital £60,000. To carry on the business of manufacturers, importers and exporters of and dealers in carbonic acid, oxygen, etc. William Pope, Joseph Constant, Louis Constant and Alberty E. Pope, Bishopstown Avenue, Cork, directors.

ERN WESTMORE (HOLLYWOOD), LTD. (P.C.).—Capital £100. To carry on the business of manufacturers of and dealers in lotions, hairdressing appliances, hair dyes and bleaches, shampoos, etc. First directors are to be appointed. R.O.: 6 Gloucester Square, London, W.2.

AIROTHENE, LTD. (P.C.).—Capital £10,000. To carry on the business of merchants, importers and exporters, manufacturers of, and dealers in, plastic goods, etc.; chemists and druggists; chemical engineers; shipowners, ship brokers or agents, Alexander M. S. Will, Alexander H. Tucker and Eric

Brust, directors. R.O.: 24 St. Mary Axe, London, E.C.3.

Company News

MONSANTO CHEMICALS, LTD.—Mr. Edward O'Neal, jun. (see p. 137), managing director, has been appointed chairman of the board.

BUSINESS CHANGES

EVANS MEDICAL SUPPLIES, LTD., have appointed Mr. R. Wallis their representative to chemists North Birmingham and the Black Country.

MR. R. H. JEATER has been appointed manager, and **MR. D. S. REAY**, assistant sales manager, of Gillette Industries, Ltd., Great West Road, Brentford, Middlesex.

E. J. HANSON, manufacturing chemist, has moved their office and works to Nettlefold Lane, West Norwood, London, S.E.27 (Telephone: Croydon 2763).

ECONOMIC UTILITIES, LTD., exporters, importers and chemical wholesalers, are removing on February 1 to larger offices at Stone House, Bishopsgate, London, E.C.2 (Telephone: Bishopsgate 5526).

MR. J. S. McCURUM, M.B.E., M.P.S., has acquired the pharmaceutical and optical business of **D. S. EVANS, LTD.**, 75 High Street, Annan. McCrum was previously, from 1934, non-resident representative of S. Maw, Son & Sons, Ltd.

KING & KING (CHEMISTS), LTD., Bristol, are closing their branch at 37 College Green, Bristol, as from February 1, owing to expiration of lease. Correspondence should be addressed to company's head office, 4 Park Street, Bristol.

WATTEN EMULSIFYING MACHINES, LTD., centralised all sales and after-sales services at Wandle Road, London, S.W.17 (Telephone: ham 7076). Any authority given to other companies to undertake servicing or installation be notified in trade Press announcements.

GLAXO LABORATORIES, LTD., Greenford, Middlesex, have appointed **MR. A. L. BACHARACH, F.R.I.C.**, to the staff of their public relations director. **MR. W. F. J. CUTHBERTSON, F.R.I.C.**, is to succeed Mr. Bacharach as head of the nutrition unit of the company's research section.

THE ASSOCIATION OF BRITISH CHEMICAL MANUFACTURERS announces that no appointment is made to the post of joint manager held by late Mr. R. Murdin Drake as it is felt impossible to replace his extensive and peculiar experience. **MR. A. J. HOLDEN** is to assume wider responsibilities, acting as manager and deputy to **MR. DAVIDSON PRATT** (director and secretary) and continuing as secretary of the British Colour Makers' Association. **MR. W. A. WILLIAMS** is to take on the charge of work on pest-control matters. **H. W. VALLENDER** (hitherto assistant to Williams) is to help **MR. A. G. MUSSELL** with the bulk of the work previously supervised by Drake, and a new junior technical assistant to replace him. **MR. W. J. SHORTHORSE** (who has been assisting Mr. Holden) is now to deal with efficiency and patents matters in addition to matters concerning pigment colours and the Industries Fair.

DEATHS

ALEXANDER.—Recently, Mr. Adam Glen Alexander, a director of Ayrton, Saunders & Co., Ltd., Liverpool. Mr. Alexander, joined the company as a boy, was in the department dealing with perfumery and toilet preparations. A local service at Moor Lane Methodist Church, Crosby, on January 21, was followed by cremation at Anfield Cemetery, Liverpool.

BLAY.—On January 6, Mr. Charles Blay, M.P.S., 113 Raglan Street, Canterbury. Mr. Blay qualified in 1927.

COOPER.—On December 19, 1948, Mr. Herbert Hudson Cooper, 62 Pencisely Road, Cardiff, formerly of 43 Fernwood Avenue, Streatham, London, S.W.16, aged sixty-six. Mr. Cooper qualified as a chemist and druggist in 1903.

CRAWSHAW.—On December 23, 1948, George Crawshaw, Ph.C., 46 Gallop Road, Waterloo, Liverpool, 22, aged fifty-five.

CUTHBERT.—At Kersland, 6 Clydeford Road, Uddingston, on January 14, Mrs. Margaret Craig Cuthbert, widow of the late William Steven Cuthbert, M.P.S.

FARROW.—On January 3, after a brief illness, Mr. Albert Edward Farrow, M.P.S., 15 Sandfield, Sandling, Maidstone, Kent, aged seventy-seven.

HESLINGTON.—Recently, Mr. Cyril Heslington, M.P.S., Fairway, Braithwaite, Keswick, Northern representative of Genatosan, Loughborough, Leics. Mr. Heslington, who was cremated at Bradford on January 22, is survived by his widow and children.

JACKSON.—Recently, Mr. Frederick Charles Jackson, M.P.S., 16 Western Road, London, aged seventy-four. A native of York. Mr. Jackson removed to Hove to take up an appointment with Parris & Sons, Ltd., but for the past twenty years had been in business on his own account. His wife predeceased him by many years. A keen sportsman, Mr. Jackson was a member of a number of local clubs and held various sporting trophies.

JORDAN.—On December 22, 1948, Mr. John Jordan, 10 Smythen Street, London, aged fifty-one. Mr. Jordan was for many years in the employ (and for ten years manager of the manufacturing laboratories) of Evans, Gadd & Co., Ltd., London.

MELCHETT.—At Miami, Florida, U.S.A., on January 22, the Rt. Hon. Sir Henry Ludwig Mond, second Baron Melchett, aged fifty. Lord Melchett was formerly deputy chairman of Imperial Chemical Industries, Ltd., entering the business after military service in the 1914-18 war. He became a director of the Mond Nickel Co., Amalgamated Anthracite Collieries, Ltd., Barclays Bank, Ltd., and other companies, and was for a time chairman of the Mond Staffordshire Refining Co. In 1923 he was elected Liberal M.P. for the Isle of Ely division and in 1929 represented the East Toxeth division of Liverpool as a Conservative. He resigned from the board of Imperial Chemical Industries, Ltd., in 1947.

MILLIGAN.—At 90 Barnett Wood Lane, Ashted, Surrey, on January 13, Mr. William Milligan, M.P.S., aged seventy-two. Mr. Milligan qualified in 1897. He is survived by his widow and a daughter.

PHELPS.—On December 28, 1948, Mr. Wilfrid Maslin Phelps, 83 Claremont Road, London, N.6, formerly of Broadstone, Dorset, and 10 Hampstead Road, Brislington, Bristol, aged sixty-eight. Mr. Phelps qualified as a chemist and druggist in 1911.

STRACHAN.—On December 5, 1948, Mr. John Strachan, M.P.S., 43 Waldram Park Road, London, S.E.23. Mr. Strachan qualified in 1898.

WAND.—At Sandycove, Desford, Leics, on January 18, Mrs. Milly Wand, wife of Mr. Allan E. Wand (chairman, Wands, Ltd., chemists, Leicester).

WILKINSON.—At Withington Hospital, Manchester, on January 12, as the result of an accident, Mr. Walter Wilkinson, M.P.S., 80 Palatine Road, Northenden, Manchester. Mr. Wilkinson qualified in 1925. He was a prominent Freemason.

WRIGHT.—On January 17, Mr. Hubert Wright, senior representative of A. de St. Dalmas & Co., Ltd., Leicester. Mr. Wright had been with the company for fifty-four years and a representative for fifty-two. He was especially well-known in south-east England, where he spent approximately twenty years prior to his transfer two or three years ago to the company's "home" territory. On completing fifty years on the road, Mr. Wright received a cheque from the directors. He is survived by his widow, two sons and two daughters.

THE WEEK IN PARLIAMENT

By a Member of the Press Gallery, House of Commons

In the House of Commons on January 18, SIR STAFFORD CRIPPS gave statistics to show that taxation per head in this country is: Direct, £39, indirect, £30 (against £26 and £21 in Canada; £26 and £20 in Australia; and £52 and £14 in the United States).

Plastics Industry Materials

MR. A. M. SKEFFINGTON asked the President of the Board of Trade on January 18 to what extent he considered that the present arrangements for the supply of raw materials to the plastics industry were satisfactory. MR. HAROLD WILSON replied that the industry used a wide range of raw materials, some in short supply. If Mr. Skeffington had any particular case in mind he would make inquiries.

British-made Carbon Black

MR. SCOTT-ELLIOT asked what steps were being taken either to manufacture carbon black in this country or to provide suitable substitutes from home-produced tar products.

MR. HAROLD WILSON: Plans are well advanced for the erection of plant in this country to produce imported types of carbon black using American processes. One of the companies concerned is considering the possibility of using home-produced tar products as the raw material in due course.

Extra Soap for Dispensers

MR. CHARLES TAYLOR asked the Minister of Food on January 19 whether he would consider granting an additional soap allowance for the use of persons working in a pharmacist's shop who constantly had to handle drugs.

MR. JOHN STRACHEY: Yes. I am glad to say that now that we have a little more soap, I have arranged for an allowance to be granted on application for all dispensers in chemists' shops.

Medicine Bottles

MR. G. R. CHETWYND asked the Minister of Health on January 20 why no charge was made for medicine bottles supplied under the National Health Service, and what was being done to maintain an adequate supply; and what action was being taken to prevent wastage of bottles. "These matters are under consideration," replied

Mr. Bevan. He thought the amount of work involved in securing information about the number of bottles issued and percentage returned would exceed the expenditure on the bottles.

Debate on Health Service

An adjournment debate on the work of the National Health Service was raised by SIR HENRY MORRIS-JONES, on January 21. He said that he understood that the cost of the Service was now something like £30 millions more than the estimates, and responsible authorities said it might even be £100 million above the estimate in the next year or two. Yet large numbers of medical men were extremely disturbed about their present position. In some areas, their earnings had gone down so seriously as definitely to affect morale and working power of the general practitioner. Why should a temporary doctor coming to this country be allowed the facilities of the scheme, including expensive prescriptions and spectacles?

MR. HUGH N. LINSTED said the delicate situation seemed to have got completely out of hand, and there had been a delay in the payment of chemists' accounts from overloading of the machine. He hoped the Ministry would be soon able to give some indication of its long-term policy for capital projects in connection with hospitals.

MR. JOHN EDWARDS (Parliamentary Secretary to the Ministry of Health), admitted that the Government had "completely under-estimated" the need for the service. So far, forty million people had put their names on the doctors' lists in England, Wales, and 18,165 doctors out of a total of 21,000 had entered the scheme. Seven and a half million prescriptions had been issued for medicines or appliances, and more than two-and-a-half million people had had their sight tested under the supplementary ophthalmic service. Over 10 million pairs of glasses had been supplied or were on order. Now that the Service had been running for six months, and the rush was, in some quarters, beginning to subside, the Ministry was taking steps to review every side of the service, including the remuneration of doctors. An amendment, he said, was in course of preparation. He repeated Mr. Bevan's declaration that it was impossible for a private patient to obtain drugs through the service.

PERSONALITIES

R. E. W. SKYRME, Ph.D., B.Pharm., (managing director, Shurzine Pharmacy, Ltd., Hastings, and a member of board of examiners of the Pharmaceutical Society), has been appointed lecturer in forensic pharmacy at Aston Technical College.

R. GEOFFREY HIRST (of Hirst, Brooke Hirst, Ltd., Leeds), who is prospective derivative candidate for the Shipley, Division, has made, since March, 407 public appearances and delivered 303 speeches, ninety-three of them on the open air. He has also written twenty-nine articles and over one hundred for newspapers.

R. W. F. J. CUTHBERTSON, Ph.D., I.C., who has been appointed head of nutrition unit, the research division, of Laboratories, Ltd., Greenford, received his scientific training at the Brighton Technical College, and University College, London. He took his B.Sc. degree with first-class Honours in chemistry and received his doctorate with a thesis on the biology of vitamin E.

R. R. BARER, M.C., B.Sc., M.B., B.S., of the Department of Human Anatomy, University of Oxford, has been appointed Alan Johnston, Lawrence and Riley Research Fellow of the Royal Society for two years from January 1. The fellowship is renewable for a further three years. Dr. Barer is to continue his work at Oxford on the biological and medical applications of new methods of microscopy, with special reference to the Burch reflector-microscope (see *C. & D.*, 1947.I.682-).

R. EDWARD A. O'NEAL, jun., who has been appointed chairman of the board of directors of Monsanto Chemicals, Ltd., graduated in physics at Davidson College, Columbia, U.S.A. He was research chemist with the Swann Corporation when that company was absorbed by Monsanto Chemical Co., U.S.A., in 1926. After service with Monsanto Chemical Co., he came to Great Britain in 1946 as deputy managing-director of the English company, and was appointed managing director the following year.

R. G. H. ARMITAGE, M.P.S., has relinquished the managership of the High Barn, London, W.C.1, branch of Boots, upon reaching retiring age, but is continuing with the company on relief

duties. He is continuing his activities as employee representative on the general and hours-of-service committees of the County of London Pharmaceutical Committee, as general secretary of the Registered Pharmacists' Union, and as elected committee member of Boots Pharmacists' Pension Scheme and Boots Life Assurance, Ltd.

MR. C. A. RICHARDSON, M.P.S., has been elected president of the Shipley, Yorks, branch of the Young Conservatives. Mr. Richardson, who has been for many years in business on his own account at 12 Victoria Road, Saltaire, Shipley, has played a leading part in the youth movement for many years. He is a member of the Shipley council, is a past-president of the local Rotary club, a past-chairman of the local bowling club, president of the local "Young Theatre," and an active member of the Musical Union and the British Legion. He qualified as a chemist and druggist in 1920.

FIFTY YEARS AGO

From the *C. & D.*, January 28, 1899.

Pennyworths

"COULD you spend 2s. 6d. do you think?" queried the editor. . . . "I want you to spend it in chemists' shops, and let me know what you buy with it." . . . One pharmacy I visited was of a "dentist and chemist" . . . The chemist—assuming, I suppose, from the general sadness of my mien, that I was a dental client—said, "Will you step in here, sir?" motioning me to the back room. I went in and sat down, and presently the chemist came in and said, "You want a tooth extracting?" "Oh, dear, no," I exclaimed; I want some carbonate of soda for photographic purposes." . . . Twopennyworth of chlorate of potash was what I bought at the next shop. The locum-tenens, as I judged him to be . . . spoke of the times long ago when he was apprenticed. . . . "What's the matter with it now?" I asked. "Well, you see, we work long hours for so little profit." . . . He afterwards went on to indicate the brighter side. Chemists all over the country, he said, were forming associations for the discussion of scientific and trade matters, and were becoming more friendly to one another . . . My last purchase was a penny packet of borax, camphor, and rosemary hairwash-powder.

TRADE NOTES

Price Change.—Burroughs Wellcome & Co., 183 Euston Road, London, N.W.1, draw attention to an alteration in the price of their balling gun for administration of Tabloid brand phenothiazine.

Sales Teams Combined.—Gillette Industries, Ltd., Great West Road, Isleworth, Middlesex, announce that the sales teams for Gillette and Toni products are being combined; in future all Gillette representatives will handle both products.

Precipitated Calcium Carbonate.—A leaflet dealing with the history, manufacture and standardisation of precipitated calcium carbonate, including references to its uses and assay, has been issued by John & E. Sturge, Ltd., 1 Wheeleys Road, Birmingham, 15.

"Squeeze" Drum.—Cupal, Ltd., Blackburn, are now issuing their Secto DDT insecticide powder in "squeeze" drums for easy powder spraying. The drum has a single perforation at one end, a fine spray of powder emerging when the drum is squeezed.

Change of Pack.—International Chemical Co., Ltd., Chenies Street, London, W.C.1, are now issuing Anadin tablets in a "one-by-one" pack of twenty tablets. A slide is pushed forward with the finger and a shake causes the tablets to come out one at a time.

Year-book Entry.—Holders of the *C. & D. Year-book and Diary*, 1949, are asked to make the following correction:—P. 178. Martindale, William, Wholesale, Ltd., 14-16 Bruton Place, New Bond Street, London, W.1. Telephone: Mayfair 7811 (8 lines). Telegrams: Martindale, Phone, London. [Corrected note].

Exhibition of Packaging Materials.—An exhibition of commercial packs and packaging materials is being staged at Murray House, Petty France, London, S.W.1, May 3-31, by the Council of Industrial Design, in collaboration with the Institute of Packaging and the Printing, Packaging and Allied Trades Research Association.

Purchase Tax Exemptions.—GLAXO LABORATORIES, LTD., Greenford, Middlesex, announce that, from January 31, Caldeferrum tablets, Ostelin tablets, and Ostocalcium tablets will be tax-free. The company regrets that the purchase tax regulations do not provide for any refund of tax already paid.—ROCHE PRODUCTS, LTD.,

Broadwater Road, Welwyn Garden Herts, announce that calcium-D-Red tablets became exempt from purchase on January 24.

Duomycin Supply Position.—Le Laboratories division of Cyanamid Products, Ltd., Brettenham House, Lanc Place, London, W.C.2, announce that small quantities of Duomycin (aureon hydrochloride, Lederle) have been received in this country from the Le division of the American Cyanamid New York, and that supplies are not available for general use in Great Britain present. Manufacture is, however, greatly extended, and a statement of the availability of the drug in Great Britain is to be made shortly.

Containers for Hypodermic Injections.—W. Freeman & Co., Ltd., Sub Works, Peel Street, Barnsley, direct attention to their Suba-Seal hypodermic "units" (bulk-solution containers for hypodermic injections). The plain or ber-tinted alkali-free glass bottles are 5, 10, 25, 50, or 100 or 200 c.c. capacity. The neck of the bottle is threaded externally to accept a screw-on cap, and recessed internally to accommodate a sulphur-free rubber closure patented design. A leaflet describing containers is available from the manufacturers.

Alpha-naphthylthiourea.—British Chemicals & Biologicals, Ltd., 43 Rother Street, Loughborough, Leics, point out that the company's subsidiary, Genat Ltd., manufactures alpha-naphthylthiourea in commercial quantities. The substance was mentioned in Ministry of Health Bulletin No. 21, in reference to schistosomiasis ictero-hæmorrhagica. The grades are available: Pure (used mainly in organic synthesis); technical (containing 92-96 per cent. of the compound and commercial, which is of the degree of purity as the technical grade but of coarser particle size.

Reduced Prices.—Trade terms and retail prices for Snap vacuum rings (for use with Snap closures for serving jars) are given in an announcement by GRAHAM FARISH, LTD., Bromley, Kent, elsewhere in this issue.—Detailed new reduced terms in operation from March 1 for Ortho-Gynol and Ortho-Creme are given in an announcement

er page by ORTHO PHARMACEUTICAL, High Wycombe, Bucks.—Reduced s will be in operation from Febru- for Rubiazol tablets and Sterogyl-15 rules, manufactured by ROUSSEL RATORIES, LTD., 95 Great Portland t, London, W.1.

w Sizes.—THE BRITISH DRUG HOUSES, Graham Street, City Road, London, are introducing on February 1 a new gth of Estigyn ethinyl œstradiol, H. Tablets of 0.01 mgm. will be avail- in bottles of twenty-five, 100 and 500 ts.—CIBA LABORATORIES, LTD., Hors- Sussex, are introducing on February Linguet containing 0.01 mgm. Eticylin yl œstradiol.—PHARMACEUTICAL SPEC- ES (MAY & BAKER), LTD., Dagenham, nce that Anthisan brand pyranis- e maleate, already packed in con- rs of twenty-five and 500 0.05 gm. -coated tablets, is now available in iners of 100 0.05-gm. sugar-coated ts.

ucose Sponges. — Sponcel, Ltd., ham Road, Bromley, Kent, are launching a sales campaign for Spontex sponges, which are claimed to have a greater absorbency than natural sponges. Spontex is made by a viscose process akin to the manufacture of artificial silk. It does not go slimy with use, and may be cleaned by boil-

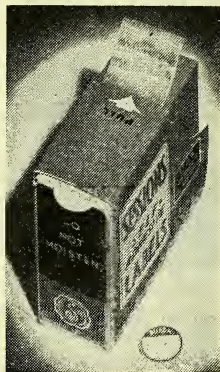


in water to which a little washing soda been added. Spontex toilet sponges available in two shapes (oval and ngular) and in a range of pastel es, wrapped in transparent tissue, four-colour label.

istribution in North-east England.— s Medical Supplies, Ltd., Speke, rpool, 19, notify changes in their dis- ation arrangements in Northumberland, am and Tees-side (including Whitby) February 1. On that date the dis- ation depôt at Newcastle-on-Tyne will osed, and orders should be sent to lps Spencer, Dakers & Co., Ltd., 35 riar Street, Newcastle-on-Tyne, who, e company's agents in that area, will k all Messrs. Evans' drugs, chemicals,

pharmaceuticals and medical and veteri- ary products. Messrs. J. Irving and A. L. Bartlett will continue to act as representa- tives for Evans Medical Supplies, Ltd., in the areas named, and it is emphasised that Messrs. Phillips Spencer, Dakers retain their independent identity.

Self-Adhesive Labels.—A continuous-strip "dispenser" of self-adhesive labels is being marketed in this country by William Sessions, Ltd., The Ebor Press, York, under licence from the American inventor. The labels, which may be of varied shape and printed in one, two or three colours, are backed on to white chromo paper or foil. In use, the backing strip is rolled away, and the label affixed to the container by pressure (without damping). For affixing labels to smooth or other difficult surfaces (metals, plastics, transparant tissue, painted wood) the method is specially suitable. Machines are available for quick separation of the labels from the backing strip.



Proprietary Articles Trade Association

Additions to Protected List (Part 1).—*Brand & Co., Ltd.*, invalid calf's foot jelly, 5-oz. bottle, 9s. 9d. doz., 1s. (exempt from tax).

Parke, Davis & Co., Benylin expectorant, 4 fl. oz., 24s. doz., tax 33½ per cent., inclusive retail price 3s. 8d.; 16 fl. oz., 76s. doz., tax 33½ per cent., i.r.p. 11s. 7½d.

Alterations to List (Part 1).—*Benger's, Ltd.* (distributors, *British Chemicals and Biologicals, Ltd.*), Extomak, No. 2 (only size available), 139s. 6d. doz., 15s. 6d. (exempt from tax).

A. Wander, Ltd. Aloloc cream, tablets and powder now exempt from purchase tax. Prices: Cream, 40-oz., 11s. 6d. each, 15s. 4d.; 80-oz., 20s. 10d. each, 27s. 9d.; cream, 33s. 9d. doz., 3s. 9d.; tablets, 60's, 22s. 6d. doz., 2s. 6d.; 120's, 40s. 6d. doz., 4s. 6d.; powder, 100-gm., 24s. 9d. doz., 2s. 9d.; 250-gm., 49s. 6d. doz., 5s. 6d.

Additions to List (Part 2).—*Rybar Laboratories, Ltd.* R.B.C. (Rybar benzocaine calamine cream), 1-oz. tube, 20s. doz., tax 33½ per cent., i.r.p. 3s. 1d.

Brand & Co., Ltd., Apple and rose-hip syrup baby-food (in standard baby-food can), 6s. 6d. doz., 8½d. (exempt).

Alterations to List (Part 2).—*Stemco, Ltd.*, Flit hand-sprayers, 26s. doz., 3s. (exempt).

FIFTY YEARS OF EXPORT SELLING

Interview with Mr. W. Lyall Willis at his London Office

AMID the intense interest that has been focused on Britain's export trade since the war, it is salutary to remind oneself that the high sales figures today have been largely a harvest of spadework put in by trade ambassadors throughout a great many years.



Mr. W. Lyall Willis

One of the most successful businesses in the specialised field of overseas salesmanship is that of Lyall, Willis & Co., Ltd., which celebrates this year the fiftieth anniversary of its establishment. The chairman of the company (Mr. W. Lyall Willis), in an interview recently, gave the following account of the company's history:—

From City to West End

We started in a small way in Idol Lane, London, E.C.2, in 1899, sharing an office with a friend of mine. Later we moved to larger offices, first in Billiter Buildings, Billiter Street, and then to Billiter House, where we remained until the building was destroyed by enemy action during the 1939-45 war. After that we worked from two addresses in Hampstead, and finally moved to our present address at 52 Baker Street, London, W.1. For myself, having traded for so many years in the City of London, I must admit that I miss the City atmosphere, but our staff prefer the brighter West End. During the winter months that followed our first blitz our staff worked in overcoats, and later on the air-raid shelter served as office. Little did our friends abroad know how their work was being handled, and what courage and fortitude was called for from our staff.

But, to go back for a moment to the early days—for the first ten years I called on the London export merchants and shipping houses. As a result, when I visited their associate houses or clients abroad I already had a common link, many of those firms having given me introductions. Such introductions were of the greatest assistance, particularly on my first journey, made in 1908 when, on behalf of the

company, I visited the United States, Canada, Japan, China, Siam, Singapore, Burma, India and Egypt. The important contacts established were renewed thirty-five years consecutively, the whole of the world, other than Europe, being covered. On one occasion we were requested to undertake a market survey of the world for a leading British manufacturer, and to do this we sent out three representatives to cover different parts of the world; the work took fifteen months to complete. Travelling in those days was not quite so comfortable as in these days of luxurious steamships and air liners. On my first journey from Hong Kong to Shanghai I had to travel north to Swatow, China, where I booked a passage in a small Chinese man cargo boat (the only line then undertaking this voyage). We carried only Chinese and no European passengers. I put down on the books as Second Officer. There were only four other Europeans: Captain, First Officer and First and Second Engineer. My principal duty was to assist the Chinese on deck every morning from the holds in which they lived and slept. Any who were late up on deck received a whack from the captain (who was waiting at the top of the hatch) to whom the Chinese had a high regard. They thoroughly enjoyed the fun, and would hinder some poor individual hoping he would receive his punishment and get them a good laugh.

Changes of Structure

In the early days British representatives were often guests of some of the local merchants, and we old travellers owe great debts of gratitude to such firms as Matheson & Co., Ltd., Samuel & Co. (Shipping Transport), Grace Bros., Ltd., Steel Brothers & Co., Ltd., the Borneo Co., Ltd., and many others that helped us with their knowledge of local conditions and requirements.

It took the company some years to complete its present organisation. At first, we appointed some of those "merchant princes" to represent us, but many of them were too big to worry about creating a demand for the products we were exporting. Now we went from the sublime to the ridiculous and appointed some of the younger elements to represent us. Unfortunately, they could not afford to wait for results, and

the time I arrived home most of them had to take positions with local firms. I thought we should try opening our own houses, which I did in India and Ceylon. This policy, however, did not please the local merchants, who thought we were going to compete with them, whereas all we had in mind was to stimulate sales. Finally I closed the overseas branches and appointed manufacturers' agents. These weathered the storms, and some of our present agents have represented the company for twenty-five to thirty years or even more. The company's agents now number about 100, and they are to be found not only in capital cities but in all principal commercial centres. In Australia, for example, our agents are not only at Sydney but also at Adelaide, Melbourne, Perth and Brisbane.

In 1919 the business was formed into a private limited company, the late Mr. T. J. Cripps joining the board as assistant managing director. At his death my son (Mr. Graham Willis) took his place. Later Mr. J. Morton joined the board. You ask what, in my opinion, are the more important factors in building up a manufacturers' export trade. I have no hesitation in saying that the principal requirements are, first, quality and finish;

secondly, specialisation, and the making of goods in quantity that are really in demand; thirdly, delivery as undertaken; fourthly, careful attention to packing, including adequately marking the cases with their contents, a point often forgotten. Insufficient indication of contents can cause untold confusion at the port of landing. All invoices should also show the number upon each case, and the contents, so that when the cases are eventually taken out of bond or warehouse, the buyer knows exactly which case to open. If exporters on this side would make sure this was done on every occasion they would earn the gratitude of their overseas buyers, and save business being lost to competitors whose goods are no better but whose attention to the customer's convenience is greater.

Mr. Willis claimed to be "one of the pioneers of overseas travelling," and his company acts as a direct link between the overseas buyers and the many British manufacturers in the pharmaceutical and surgical trades for whom they act either as agents or as export branch. The fact that they undertake this service, guaranteeing all accounts and paying in London, obviates the necessity for manufacturers going to the great expense of setting up their own organisation.

A CHEMICAL ENTERPRISE IN CUMBERLAND

Chancellor of the Exchequer (Sir Gordon Cripps) travelled north recently to open at Kells, near Whitehaven, a 100 sq. ft. extension to the works of Archon Products Ltd., chemical manufacturers. Established in 1939 under the managing directorship of Messrs. F. J. Gillier and F. Schon (from whose names the company's title is compounded), the company is engaged in the manufacture of detergents, wetting agents, emulsifiers, etc., used in the pharmaceutical, cosmetic and other industries.

The company started in a small factory in London, but when, in 1940, the factory was destroyed, another start was made in Whitehaven. Housed at first in makeshift workshops, the company was, by the end of the war, producing large quantities of synthetic detergents, etc.

The present activities of Messrs. Archon Products comprise the manufacture of sulphated higher alcohols, of sulphonated condensation products and of esters and plasticisers principally for the paint industry. The sulphated products of the company are claimed to be superior to any

to be obtained outside the United States and equal to any produced within that country. That quality has been achieved by close research upon the mechanism of the sulphation reaction, and by using specialised plant of their own design. Other productions from the plant are sulphated cetyl, oleyl and stearyl alcohols in paste and powder form, and the pharmaceutical products sodii et laurylis sulphas, alcohol cetostearyllicum, and cera emulsificans, as well as branded cosmetic and other waxes. The principal sulphonated condensation product produced is Nansa BX, a wetting agent, from which are derived a range of domestic washing powders (Nansa 300, 400 and 500), all of them totally spray-dried, dust-free soluble alkyl-aryl sodium sulphonates, containing auxiliary organic and inorganic "builders." The plant is capable of producing 15,000 tons of synthetic washing powder in 1949. The range of esters manufactured includes pentaerythritol, glycerin esters of stand and tall oils, butyl acetyl ricinoleate, butyl stearate, dibutyl tartrate and other substances.

NEW BOOKS

Slogans.—The Fleet Street Group, Ltd. 7½ in. x 5½ in. Pp. 600. 30s. Day's Publications & Services, Ltd., 93 Chancery Lane, London, W.C.2. Not knowing the race of advertisement copywriters, one might receive the impression, after examining the material presented in this book, either that they have an extreme delicacy lest they should tread on one another's corns, or that they prefer easy adaptation of second-hand formulas to the pioneering of original ideas in freshly-minted phrases. Doubtless, among the more than 6,000 quotations given are to be found the sparkling gems of propagandist wit. (As a fair sample, let us take "It's the parachlormetaxyleneol that does it"). But surely in the pot-pourri of gambits, phrases, and even single words in which the gems are buried are a host of expressions for which, probably, not even the advertisers would claim originality or exclusiveness. The slogans are arranged in three sections—first alphabetically; secondly, in twenty-three trade groups; and finally, according to 900 "operative words," such as "lovely," "relief." One must marvel at the prodigious industry of the compilers, who have given chapter and verse (including numerous references to the *C. & D.*) for every item, but the result is as unintentionally entertaining as would be a reprint of, say, the edifying aphorisms collected (but hardly classified) by the late Samuel Smiles.

The Essential Oils, Vol. I.—Ernest Guenther, Ph.D. 9½ in. x 6 in. Pp. 427. 33s. D. Van Nostrand Co., Inc., New York. Agents for the British Empire: Macmillan & Co., Ltd., St. Martin's Street, London, W.C.2. The author is technical director of Fritzsche Brothers, Inc., New York, and has succeeded in this book, the first of a series, to cover the history, chemistry, biological origin and functions of essential oils, methods of production and analysis. He emphasises the changes which have occurred in recent years in the industry—in particular in America—as a result of new sources of supply which have been developed in the Western Hemisphere. As the book covers a wide field, Dr. Guenther has called upon the assistance of other experts in specialised subjects in preparing certain chapters and sections of the book. Dr. George Urdang, the pharmaceutical historian, has written the chapter on the origins and development of the industry. The analysis section is by Mr. Edward E. Langenau. As far as possible the methods given for the examination

and analysis of essential oils, isolates and synthetics represent standard official procedures of the U.S. and British Pharmacopœias, or similar authorities, and specialised techniques which are seldom used in commercial laboratories have, in most instances, been excluded. The valuable tables of boiling points of isolates and synthetics at reduced pressure, given in an appendix, are taken from Von Rechenberg's "Einfache und Fraktionierte Destillation in Theorie und Praxis" published in 1923, of which few copies are now to be seen on library bookshelves.

Remington's Practice of Pharmacy. 11½ in. x 8 in. Pp. 1,511. 90s. (Britain). Interscience Publishers, Ltd., Southampton Row, London, W.C.1. Under the co-editorship of Dr. E. Fullerton Cowdrey (a former personal associate to Professor Remington) and Mr. Eric W. Martin, with the help of some forty associate editors, the ninth edition of this monumental work has been modernised in form and content. The new shape and make-up of the pages, and the use of cross-references, make for easy access to the wealth of information provided. The matter contained in the present edition follows closely that of the eighth, with the additions of a chapter on statistical analysis, notes by medical men on the therapeutic action of drugs, great detail in the chapter on pharmaceutical mathematics and the commercial and professional practice of pharmacy, and chapters on antibiotics (termed "the wonder drugs of this decade"), vitamins, sex hormones, amino-acids and enzymes. The book is divided into fifteen sections dealing with scope, pharmaceutical operations, galenicals, organic and inorganic chemicals and analysis, American forensic and professional pharmacy, the pharmacist in public health service, business methods, hospital and manufacturing pharmacy (including some twenty pages on tablet-making, biological products, perfumery and cosmetics (including older and modern formulas). An appendix contains a glossary of pharmaceutical and medical terms and a list of American pharmaceutical manufacturers. Written primarily for American pharmacists, students and doctors, the work contains much of general pharmaceutical interest. As a memorial to the original author, the copyright of the book has been presented to the Philadelphia College of Pharmacy and Science, at which Professor J. R. Remington taught.

GUIDE TO NEW MEDICAMENTS

Information about new proprietary medicaments to be supplied principally on prescription. Editorial recommendation is not implied. Reprints obtainable on application.

SULPHAMERAZINE

MANUFACTURER: Sharp & Dohme, Ltd., Hoddesdon, Herts.
DESCRIPTION: A raspberry-flavoured suspension containing 0.5 gm. Sulphamerazine (sulphadimethyl pyrimidine) in each teaspoonful.
INDICATIONS: Treatment of infections due to meningococci, pneumococci, gonococci and hæmolytic streptococci.
DOSE: *Children.* Initial: One to three teaspoonfuls. Maintenance: Half to two teaspoonfuls every twelve hours. *Adults.* Initial: One-and-a-half to three tablespoonfuls. Maintenance: Two teaspoonfuls every six or eight hours.
HOW SUPPLIED: Bottles of 4 and 16 fl. oz.

STILBESTROL

MANUFACTURER: Pharmaceutical Laboratories Geigy, Ltd., National Buildings, Parsonage, Manchester, 3.
DESCRIPTION AND FORMULA: Tablets each containing: stilbæstrol, 0.1 mgm.; and phenobarbitone, 16 mgm.
INDICATIONS: Unpleasant symptoms during the menopause, dysmenorrhœa of neurogenic and psychogenic origin.
DOSE: One to eight tablets daily. In dysmenorrhœa, to be taken only during the first half of the menstrual cycle, an average dose is three tablets daily.
HOW SUPPLIED: Bottles of 25, 100 and 1,000 tablets.

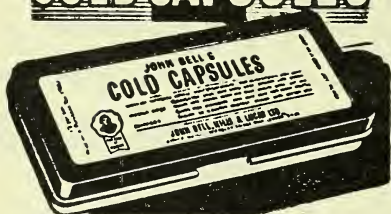
ACETOMENAPHTHONE

MANUFACTURER: Ward, Blenkinsop & Co., Ltd., 6 Henrietta Place, London, W.1.
DESCRIPTION AND FORMULA: Compressed tablets each containing: acetomenaphthone, B.P., 10 mgm., and nicotinamide, B.P., 50 mgm.
INDICATIONS: The treatment and prevention of chilblains, deficiencies of vitamin K and nicotinamide.
DOSE: Therapeutic: one tablet three to four times daily. In severe cases two tablets three times daily. Prophylactic: One tablet once or twice daily when chilblains are normally prevalent.
HOW SUPPLIED: Containers of twenty-five, 100 and 500 tablets.
NOTES: Nicotinamide has been included instead of nicotinic acid to avoid the symptoms of vaso-dilatation that the acid produces.

2-BENZYL-4:5-IMIDAZOLINE

MANUFACTURER: Ciba Laboratories, Ltd., Horsham, Sussex.
DESCRIPTION: 2-benzyl-4:5-imidazoline hydrochloride.
INDICATIONS: Arteriosclerosis with intermittent claudication, thrombo-angiitis obliterans, thrombophlebitis, frostbite, chilblains, arthritic and rheumatic diseases and other peripheral vascular disorders associated with vasospasm. Ophthalmic conditions in which hyperæmia is desired.
DOSE: Initially small and gradually increasing according to the patient's tolerance and requirements. It may be administered orally, subcutaneously, intramuscularly, intravenously, intra- or peri-arterially, or intra- or peri-articularly, percutaneously, etc.
HOW SUPPLIED: Tablets each containing 25 mgm. in bottles of 40 and 200; ampoules each containing 1 c.cm. (10 mgm.) in boxes of ten; ointment, 10 per cent. in tubes of 20 gm.; and aqueous solution, 10 per cent. in bottles of 10 mls.

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INFORMATION WANTED

The Editor would appreciate information
about suppliers of the following items:

Mirnal, vitamin preparation for veterinary use	Phthisin ampoules
Ring sprayers in metal caps	Tussanal (ephedrine cough syrup)
T.C.F. ampoules	Acetodon
Eyelen	



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Official organ of The Pharmaceutical Society of Ireland, The Pharmaceutical Society of Northern Ireland, The Chemists' Druggists' Society of Ireland and of other Chemists' Societies in the Empire.

L. CLI JANUARY 29, 1949 No. 3597

Transfusion Without Plasma

The possibility of becoming independent of blood donors is bound to appear attractive to medical men in places where plasma is obtainable, under conditions in which it rapidly deteriorates, or in time of war, and even in normal circumstances may be well-nigh impossible. For that reason reports on dextran (p. 154) are encouraging. This substance, which consists of polymers of glucose, though reports have not been accepted without reservations, appears to embody all of the theoretical requirements of a plasma substitute as listed by Dr. J. P. Burns (Medical Research Council's Burns Report), namely that its colloid solutes should be retained in the circulation until their removal can be taken by natural proteins; that the solution used for infusion should exert an osmotic pressure and viscosity similar to those of plasma; that composition should be constant from batch to batch; that the product should be stable, non-toxic and non-pyrogenic, not cause sensitization nor be stored for long periods in tissues; and that it must not act as a irritant. The only respect in which these requirements is not met by dextran is that its disappearance from the body is probably slow. The product is being freely used in Sweden, and a British company is understood to have commenced production. One of the great merits of dextran," according to editorial comment in the "Lancet" is that "it can probably be manufactured to conform closely to the ideal of a substitute for plasma."

Prototype Health Centre

THE plans for the first new health centre to be built in London under the National Health Service Act (see p. 147), which were passed by the London County Council a few days ago, include no accommodation for a pharmaceutical department. It is intended that patients visiting the centre, like patients visiting a doctor's own surgery, shall be issued with prescriptions written on N.H.S. script forms which they may take to the chemist of their choice. Although the plans have been approved in principle by the Minister of Health, they are sure to be submitted to a minute scrutiny by his experts before they are finally approved in detail, for the centre is likely to be regarded as the prototype of other centres in London and throughout the country. The plans will inevitably be studied by all health authorities that are contemplating building centres of their own, and upon the success or failure of the Woodberry Down centre may depend the whole future of health centre development. If the arrangements for issuing prescriptions meet the final approval of the Minister, pharmacists, particularly those in the immediate neighbourhood of Woodberry Down, will have a magnificent opportunity of proving what so many pharmaceutical spokesmen have been maintaining in recent months — that retail pharmacies can give so good a service that no health centre need be equipped with a pharmaceutical department. Co-operation between the local pharmacists and the professional committee responsible for organising the general medical and dental services will be necessary and is sure to be forthcoming.

Famine and Research

THAT there should be, in a time of world shortages of staple foodstuffs, fertile lands uncultivated in Africa, "where the tsetse fly keeps man and animal at bay," and in the Amazon, "where men hesitate to venture for fear of yellow fever," is a challenge to scientists as well as statesmen. Dr. F. A. Calderone (director of the Liaison Services of the World Health Organisation, and of its New York office) was not exaggerating when he used these words in an address to the annual meeting

of the American Pharmaceutical Manufacturers' Association in New York recently. It is no less—and ironically—true that in immense areas that are potentially productive men are dying for want of the food they have not the energy, on account of disease, to produce.

One way in which the challenge is being taken up received publicity in the launching of a new British trypanocide useful against the tsetse fly. It is less widely known that in Zululand, during the past two or three years, great success has been achieved against trypanosomiasis (particularly during a severe epidemic in 1946) by the use of dimidium bromide (a drug which was developed in the laboratories of the Department of Scientific and Industrial Research, and later produced commercially in Britain). The concurrent aerial spraying of the area with an insecticide, usually benzene hexachloride, against the tsetse fly (carrier of the disease) has virtually wiped out trypanosomiasis (nagana) in certain areas of Zululand. On another front Kershaw and colleagues ("British Medical Journal," January 22, p. 130) have found in *p*-melaminy phenyl stibonate (MSb) a valuable prophylactic against filariasis, a worm infection affecting not only man but his horses, oxen, sheep, goats, pigs, and camels. Work on this condition also continues to be conducted on arsenical and piperazine compounds.

Thus by simultaneous attack on fly and fever, by formulation, manufacture and distribution of rodenticides, chemotherapeutic principles, antibiotics, vaccines, and sera, the industry will earn the gratitude of mankind, for it will be helping both to relieve food famines and to bring new health and life to distressed communities.

A Year's Trade

THE Trade and Navigation Accounts for December 1948, published a few days ago, make it possible to review the overseas trade of the United Kingdom during the past year. The export effort is deserving of praise. British manufactured goods of all classes exported reached a total value of £1,583.3 millions, which was higher than in any previous year, some £445 millions more than in 1947 and well over three

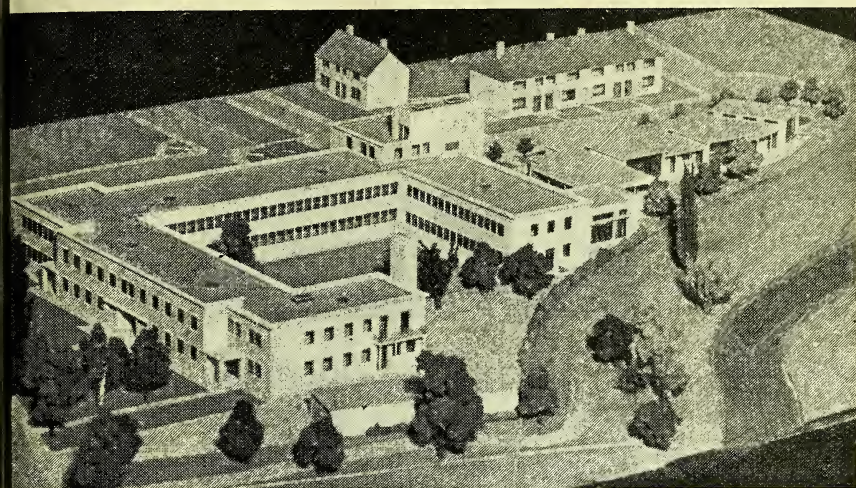
times the 1938 total. Imports at £2,000 millions were a peace-time record: reports during the year totalled £64.5 millions. The excess of imports over exports during the first six months of 1948 was £251 millions, but in the second of the year it declined to £181 million making a total adverse balance for year of £432 millions. This figure is £165 millions less than in 1947 and £44 millions more than in 1938. The excess value of imports over exports is even less than these figures show, as imports are taken c.i.f. and exports f.o.b.

Chemical Industry's Achievement

Exports of chemicals, drugs, etc. in the last month of the year, with a total of £7,347,063, were £400,000 higher than in November, and brought the grand total for this group to £83.670 millions, compared with £67.426 millions in 1947 and £22.280 millions in 1938. The monthly average for chemical exports in the fourth quarter was £7,151 millions. In 1948 the chief markets for British chemicals in order of importance, were India and Pakistan, Australia, South Africa, the Argentine, Sweden, Eire and Egypt. Shipments of drugs and medicines in December 1948 were valued at £1,425,229, which included £471,616 for exports of proprietary products, and the total for the whole year in trade in medicines amounted to £14.56 millions, compared with £14.56 million in 1947 and £3.28 millions in 1938. Principal buyers of medicinal products in 1948 included India and Pakistan, Australia, South Africa, Egypt, West Africa, and British Malaya.

On the other side of the account, imports of chemicals, etc., in 1948 totalled £31.40 millions, compared with £22.40 millions in 1947 and £13.61 million in 1938. Proprietary medicines imported during the year were valued at £225,000 against £117,203 in 1947 and £866,000 in 1939. Imports of miscellaneous medicinal products amounted to £724,000 against £1,001,526 in 1947 and £642,000 in 1938. Elsewhere in this issue an analysis has been made showing overseas trade in a range of products of interest.

C.C. APPROVES PLANS FOR HEALTH CENTRE



Plans for the first health centre to be established in London under the National Health Service Act were passed by the London County Council on January 25. The plans are also the first to have been approved (in principle) by the Minister of Health. The centre is to be built, at an estimated capital expenditure of £187,275, at Woodberry Down, Stoke Newington; the foundations are to be commenced in February, and the centre (subject to early approval in detail by the Minister) is expected to be ready for occupation in two years.

Pharmaceutical Department

The centre (see illustration of model, above) is to house under one roof the following services:—

A medical practitioners' and dental surgeons' unit including separate suites consisting of waiting room, consulting room, examination room and dressing room for six doctors, two dental surgeons with a workshop and recovery room, minor operations room, and an eye room to be used by visiting specialists. Sleeping accommodation is available for the doctor on night duty. A small store is provided for drugs actually used on the premises, but there is no pharmaceutical department: medicines for patients are to be prescribed by the National Health Service prescription and are to be dispensed by any chemist the patient chooses.

(2) A school health unit, including a room for the treatment of minor ailments, a doctor's consulting room, nurses' room, and two dental surgeries. There is also a separate eye room.

(3) A child welfare unit, including a test feed room and facilities for the supply of infant foods.

(4) An ante-natal unit with doctor's consulting room, interviewing room for health visitors and midwives, and facilities for urine testing.

(5) A remedial exercise and child guidance unit.

Receptionists, dental technicians, etc., are to be provided by the L.C.C., but the attendance of doctors and dentists is to be arranged by London Executive Council. Doctors and dentists attending the centre are to form, with the L.C.C. divisional medical officer, a professional committee to organise the general medical and dental services and to make recommendations to the L.C.C. Divisional Health Committee which is to be responsible for administering the centre as a whole. The L.C.C. plans eventually to set up 162 centres for the county of London (each to cater for a population of about 20,000), although not all will be housed in premises built especially for the purpose. Some forty sites have been earmarked for future development, but the L.C.C.'s first aim is to establish one health centre in each of its nine health divisions.

ALGINATES AND THEIR APPLICATIONS

1. The history, production, properties and uses of a group of phyco colloids now finding a widening application in the pharmaceutical field

IN 1883 Edward Stanford, a British chemist, recognised the possible commercial value of the viscous fluid that he had often seen exuding from "blisters" on seaweed washed-up on beaches. His chemical investigation of the fluid (commenced in that year) and his subsequent work on seaweed products, laid the foundation for the present alginate industry that is producing in increasing quantities new colloids with important uses in pharmacy and related fields.

Stanford's Work

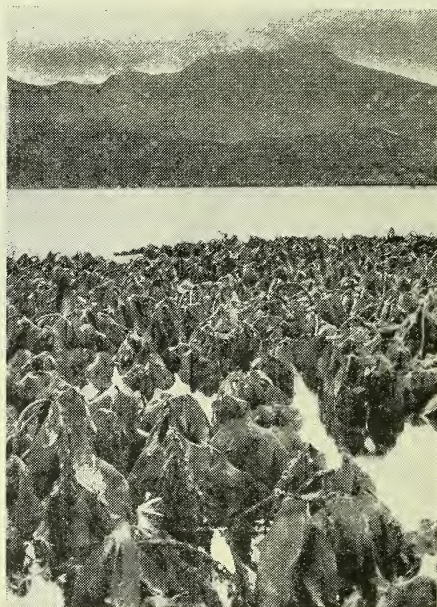
Stanford's first experiments showed that the seaweed exudate, when evaporated to dryness, became insoluble in water but was very soluble in alkalis. On these results he devised an alkaline extraction process, the seaweed (*Laminaria stenophylla*) being macerated cold for twenty-four hours in sodium carbonate solution. After passing the viscous product through a coarse linen filter-sack he evaporated the filtrate to dryness to give a product "not unlike gum tragacanth" in appearance, which he termed algin. On adding mineral acid to an algin solution a gelatinous precipitate was obtained which he dried to a hard, horny substance.

In 1884, he identified the substance as an acid, and he named it alginic acid. Later he commenced manufacturing algin in Scotland, but his product was crude (as shown by his report that it contained 3.77 per cent. of nitrogen), and the business venture failed.

Although work on the chemistry of uronic acids obtained from seaweeds was conducted later, little attempt was made

to develop alginates commercially until 1934 when C. W. Bonniksen, E. H. Thierry, and others,

formed a company (Cefoil, Ltd.) for that purpose. By 1939 a small factory at Bellachantuy, Argylls, was already producing a limited output of pure alginate in addition to an alginate transparent paper product. During the 1939-1945 war, the company's activities were expanded considerably in making an alginate textile for war purposes while the Ministry of Supply built three factories in Scotland for making the same product. These factories at Girvan, Ayr (where the final processing and packing is carried out), and Bannockburn and Kame Bay, Argylls, are at present leased to the original company which is now named Algin Industries, Ltd.



A submarine forest of *Laminaria digitata* (sea tangle), exposed at low tide at Loch nan Uamh, West Inverness.

Sources of Alginates

The most important sources of alginates in the British Isles at present are *Laminaria digitata* and *L. Cloustoni*, brown seaweeds with ribbon-like fronds growing usually well below the low water mark (see illustrations, p. 149), while another common algin-bearing plant is bladder wrack (*Ascophyllum nodosum*). These seaweeds flourish particularly well in the rocky Atlantic coasts of Northern Europe, but only on the west coasts of Scotland, and Iceland, in the Orkney Hebrides, Norway and Brittany is harvesting warranted (see illustration above).

In Ireland, an area particularly productive of seaweed, the *Laminaria* is cut by hand, and is spread on low walls, etc

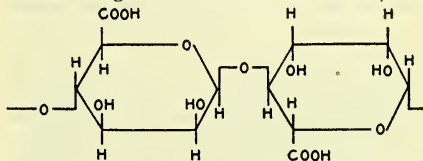
drain and dry, being "turned" as in making during the process. When fully dried the seaweed is shipped to Scotland for the alginate production process. Swart¹ states that the maritime harvest is at least as consistent as agricultural crops. Mechanical methods of collection² in a barge using a rotating cutting head connected with a suction pipe held outboard by a boom have not so far proved successful round the British coasts.

Extraction Processes

Stanford's original method of extraction of algin, which he had hoped would help Scottish iodine factories to utilise seaweed, has been modified by many workers. The developments are towards processes using either algin as practically the only product, or algin, potash, iodine, and other products. A process for algin alone, devised by Thornley and colleagues in 1922, and finally perfected³ by Green in 1936 as a cold process, is commonly used and adapted. First, the freshly harvested seaweed is leached in acidulated water until the salt content is sufficiently reduced. The product is then chopped, fed through a hammer mill, and digested with a solution of soda ash at controlled pH (about 10). After a second digestion of the seaweed, the crude algin is clarified by settling, centrifuging, etc., the solution being used usually to

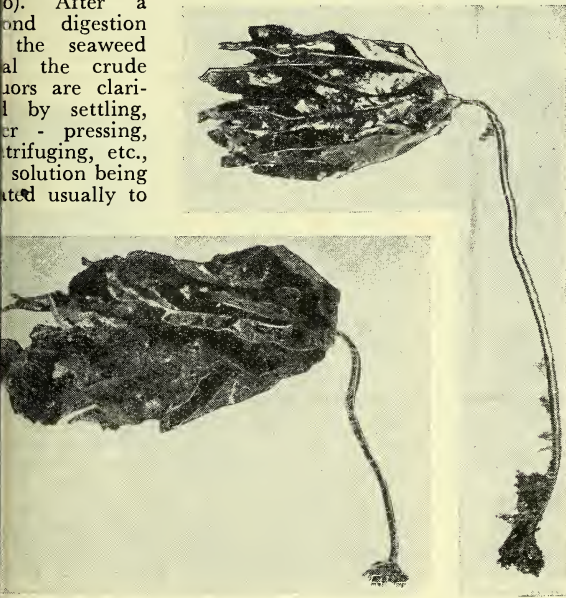
120° F. to facilitate the process. Calcium alginate is then precipitated by the addition of calcium chloride solution. On standing, the insoluble calcium salt rises to the top, and the liquor underneath is run off. The calcium alginate is bleached, introduced to a dilute solution of hydrochloric acid, and so converted into fibrous alginic acid. This is reprecipitated and washed until free from calcium salts. The purified alginic acid may be stored in a refrigerated room or converted into a salt.

According to an x-ray examination of the structure of alginic acid fibres⁴ (one of the largest molecules in nature) the



unit cell of the acid contains four mannuronic acid residues and perhaps four water molecules. The structural formula of alginic acid has been represented as a series of pyranose rings (see above, and Bonnicksen, C. & D., 1948, II, 741).

Alginic acid, which is insoluble in cold, and only slightly soluble in boiling water, absorbs, when moist, several times its weight of water, though reports that it may absorb as much as 200 to 300 times lack confirmation. It does not reduce Fehling's solution, but if dried at 100° C or boiled with dilute acid, depolymerisation occurs, with the production of reducing substances. For this reason the acid is normally obtained as a soluble salt, usually of sodium or ammonium. The compound is sufficiently acidic to liberate carbon dioxide from carbonates. The salts of the alkali metals, ammonium, magnesium, and triethanolamine, are water soluble and possess marked hydrophilic colloidal properties, a dilute



(Left). *Laminaria digitata* (found in medium tidal conditions). (Right). *L. Cloustoni* (found in strong tideways).

solution, for example, being highly viscous. A total of five soluble and twenty-five insoluble alginates have been prepared—by adding metallic salts to solutions of sodium alginate. Solutions of alginates are not coagulated by heat or gelled by cold. Sodium alginate dissolves in hot or cold water, the viscosity of the solution depending on the concentration, the degree of polymerisation of the algin molecule (largely determined by the process of manufacture), and the presence of traces of alkaline earth metals.

Mixed calcium alginate (which exists as a semigel and is almost completely soluble) can be formed by adding slowly to a solution of an alginate small quantities of Ca^{++} ions preferably from a sparingly soluble calcium salt. This and similar products are particularly useful in thickening and speeding the setting of alginate gels, while in addition, they can be converted into rigid gels depending on the amount of calcium present. Certain insoluble alginates form soluble complexes with ammonia. Alginic acid and most

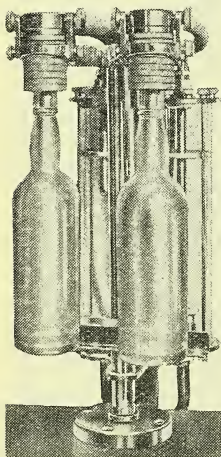
alginates are insoluble in organic solvents. On heating solutions of alginates some depolymerisation occurs though sodium and calcium alginate preparations may be sterilised by autoclaving at 15 lb. per sq. in. for 20 to 30 minutes, or where suitable, by dry heat at 150°C for one hour. Solutions are readily decomposed by bacterial action, so that the addition of preservatives is necessary for a long shelf life. The pH of sodium alginate solution is about 7.7, but this can be altered within the range pH 5.0 to 9.0 without precipitation of the acid or loss of viscosity. Commercial samples of sodium alginate contain less than five parts per million of arsenic, and less than two parts per million of lead. A 1 per cent solution at 25°C has a viscosity of about thirty centistokes.

REFERENCES

1. Stewart, "The Times Review of Industry," November, 1948.
2. Mackenzie, "Engineer," 1947, II, 337.
3. Tseng, "Colloid Chemistry," by J. Alexander, Vol. VI.
4. Astbury, "Nature," 1945, 155, 667.

INSTRUMENTS, MACHINERY AND PLANT

Double-headed Filler. — The latest model of Vacfill (formerly Ekem) liquid machine issued by Busby, Winter & Co., Ltd., 9 Andover Place, London, N.W.6, is the double-headed machine illustrated. Using pliable hose the machine may, if desired, be operated at a distance from the bulk container; the various nozzles supplied are easily interchanged, and the entire head can be detached and used away from the machine for the filling of open-mouthed jars. The makers are

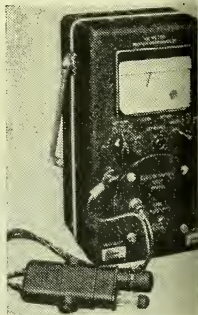


prepared to give advice on bottling problems.

Triple-roll Mill. — Introduced at the British Industries Fair, 1948, the model A 740 Millmaster triple-roll mill issued by Boyd-Norman Mfg. Co., Ltd., 154 High

Holborn, London, W.C.1, gives "infinite pressure selection by push-buttons," with direct-reading pressure gauges. Fitted with self-aligning rollers, the mill is self-contained, with stainless steel scraper knife.

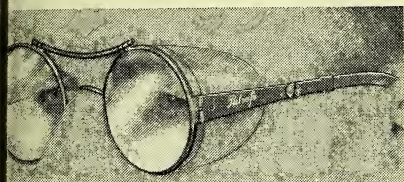
Portable pH Meter. — A new-style, lightweight, portable pH meter (type TF 889), issued by Marconi Instruments, Ltd., St. Albans, Herts, gives direct readings correct to 0.05 of a pH unit, over the pH range 1 to 11.



Vacuum Apparatus. — Among many pumps and accessories for vacuum production and control issued by W. Edwards Co. (London), Ltd., Kangley Bridge Road, Lower Sydenham, London, S.E.26, is the Edwards type 903A oil-diffusion pump which produces an ultimate pressure of less than 5×10^{-6} mm. of mercury. It is suitable for large high-vacuum systems. The company also manufactures fine-control valves for high-vacuum, vacuum-measuring

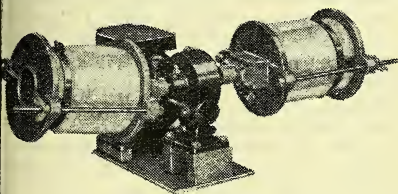
struments, vacuum switches (to operate a safety device if the desired vacuum is attained), and other accessories.

Improved Safety Goggle.—The Pulsafe improved patented spectacle-type goggle illustrated is intended for use in factories and works. The sides are shaped to fit comfortably at the back of the head and prevent pressure on or behind the ears. The lenses can be replaced without removing the sides; the screw controlling the fitting of the lenses is in the end of the reinforcing bar, and is larger than that commonly found in spectacles. The length of



sides is adjustable, and the bridge is made in two sizes. Where sideshields are required there is a choice of leather, translucent cellulose acetate (non-flam), or semi-transparent green cellulose acetate (non-flam), and the lenses are available in various types of glass. Pulsafe goggles are made by Safety Products, Ltd., 44 Hatton Garden, London, E.C.1.

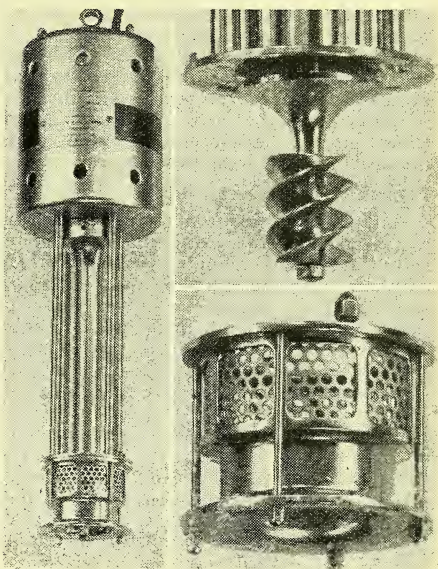
Laboratory Ball Mill. — The Pascall Laboratory ball mill and mixer, manufactured by the Pascall Engineering Co., Ltd., 4 Lisson Grove, London, N.W.1, is a laboratory unit for grinding and mixing all quantities of powders and liquids. It can be used either as a ball mill or, without the ball charge, for thorough mixing of two or more materials. In use, two porcelain jars are clamped to rotating tables



driven by a motor of fractional horsepower. The tables can be off-set to the axis at an angle of 15° to give a rolling, figure-eight motion to the contents. The mixing capacity of the jars supplied with the unit is about 30 cu. in. The mixing charge, of materials of average bulk density, is

approximately 250 gm. with, and 500 gm. without, the presence of the ball charge or, with liquids, about ½-litre and ¾-litre respectively. The ball charge supplied consists of 180 ½-in. or ¾-in. hand-made porcelain balls.

Laboratory Emulsifier.—Watten Emulsifying Machines, Ltd., 55 Wandle Road, Trinity Road, London, S.W.17, are manufacturers of the high-speed laboratory mixer and emulsifier illustrated. The capacity of the model is from 1 qt. to 6 gall., according to viscosity. The results are identical with those obtained from the production models. Measurements and technical details are: Length, 21 in., approximately; diameter (across motor), 5 in.;



weight, about 26 lb. The makers claim that Watten particles are only a quarter the size of particles produced by older mixing methods, and are produced in one-tenth the time. The machine consists of two basic units: mixer, and stand and vat. The mixer unit (illustrated), in three sizes, consists of a high-speed electric motor, driving direct to the mixer impeller worm and deflector disc. It is made to suit various requirements by fitting accessories. All the parts of the mixer which can come into contact with the product being mixed are either made in stainless steel or are hard-chrome plated to prevent corrosion.

PHARMACEUTICAL SOCIETY OF NORTHERN IRELAND

A MONTHLY meeting of the Council of the Pharmaceutical Society of Northern Ireland was held in Belfast on January 21, the president (Mr. H. H. Cowzer) in the chair. Also present were Messrs. P. R. W. Shinner (vice-president), H. F. Moore (treasurer), S. E. Campbell, F. R. Moore, J.P., H. P. Crossin, W. H. Boyd, H. W. Gamble, W. P. Ewart, Walter C. Tate, James McDowell, C. Abernethy, J. McGregor and Professor E. B. C. Mayrs, and Mr. William Gorman (secretary). An apology for absence was received from Mr. James Irwin.

A letter was received from Dr. J. E. Driver thanking the Council for its appreciation of his services as examiner in chemistry. The Council then considered the appointment of an examiner to take his place, and the secretary was directed to inquire whether two men in England, whose names had been suggested, were prepared to accept the position.

Penicillin on Prescription

A letter referring to a circular issued by the Society on the Penicillin Act was received from a Londonderry chemist. He pointed out that doctors and veterinary surgeons were failing to supply prescriptions when ordering penicillin lozenges, etc., and suggested that the provisions of the Act should be brought to their notice. MR. CAMPBELL pointed out that, as penicillin was freely supplied in Eire, lozenges and other preparations were being brought into Northern Ireland, but he did not think that this was being done for re-sale. On the motion of MESSRS. GAMBLE and SHINNER it was decided to send a copy of the letter to the Ministry of Home Affairs.

On the minutes of the Law Committee it was stated that consideration had been given to an agreement entered into with three insurance companies in 1928. The Committee recommended that the agreement should not be terminated but that in future particular attention should be paid to the submission to the Council by the companies concerned of any literature concerning their schemes. It had been pointed out that if the agreement were terminated members of the Society might lose the favourable terms on which they now held insurances.

The Committee also considered the question of businesses of pharmaceutical

chemists being formed by persons other than pharmaceutical chemists. The Society's solicitor had advised that he thought there was a case for saying that pharmacies should not be controlled by persons who were not pharmaceutical chemists and that 51 per cent. of the shares was too small a limitation. The Committee recommended that an interview should be sought with the Government on the subject. MR. GAMBLE supported the recommendation on the grounds that pharmaceutical chemists should be protected from the opening of multiple stores and suggested that the deputation to the Minister should also be prepared to discuss alternatives on which the Council was contemplating a case for a new Bill in Parliament. MR. CAMPBELL seconded and it was decided to ask the Ministry of Home Affairs to receive a deputation consisting of the president and vice-president with Messrs. Gamble and Gorman.

Certificates of apprenticeship were granted to Joseph S. R. Armstrong, Bebrook, Bridget Bryson, Maghera, Annie Elliott, Cookstown, John Galbraith, Craigavad, Jane Kirk, Ballyclare, John C. Millen, Londonderry, John F. McLean, Belfast, Ronald S. Sterling, Belfast, David J. T. Wilson, Portrush and John G. Blair, Belfast.

December Examinations

The president, vice-president, Professor Mayrs and Mr. Gorman were appointed to supply the answers to a questionnaire from the Ministry of Education on the Senior Certificate examination. It was reported that in the December examinations of the Society there had been fifty-five candidates in the Part I Qualifying examination, two of whom had been absent through illness. Twelve had passed, twenty-seven failed, two were referred in biology, one in zoology, six in chemistry and five in physics. In the Part II Final examination there had been fifty-one entrants; two were absent ill, twenty-two passed, sixteen failed, one was referred in pharmaceuticals, one in pharmacognosy and nine in chemistry. The certificates of the twenty-two successful candidates in the Final examination were sealed and a number attended to receive them from the president after the Council meeting.

On the motion of MR. MCGREGOR seconded by MR. SHINNER, it was decided

donate £10 10s. to Queen's University, Belfast, in return for the use of the Ministry of Agriculture's lecture theatre for lectures of the Society.

A discussion took place on the case of a pharmaceutical chemist who had been prosecuted for the evasion of import duty and excise tax on lipsticks. On the motion of Mr. BOYD, seconded by Mr. SHINNER, it was decided that the case should be brought to the notice of the clerk of the Statutory Committee.

Mr. McDOWELL introduced the matter of the appointment of an assistant pharmacist to a Belfast hospital. He said he

understood that the person appointed had not been qualified on the date on which applications closed although he had become qualified at the Society's examination shortly afterwards. He thought that the attention of the Ministry of Health and the Hospitals Authority should be drawn to the matter as the Hospital Board concerned had either appointed an unqualified man as assistant pharmacist or had given the appointment to a newly qualified pharmaceutical chemist without giving equal opportunity to those who had also qualified in December. It was decided to act as proposed.

DEBATE ON ETHICS OF ADVERTISING

"The advertising of dispensing services is detrimental to the profession" was the motion debated at a joint meeting of the Thames Valley and Wimbledon Pharmaceutical Associations on January 20. Mr. T. Crossley, a non-pharmacist (brother of Mr. O. L. Crossley, M.P.S.), presided. A speaker from Wimbledon, whose leading member was Mr. F. C. Wilson, M.P.S., member of the Council of the Pharmaceutical Society, supported the motion, and members of the Thames Valley Association, led by Mr. A. Mortimer, M.P.S., Esq., barrister-at-law, opposed.

Ethics of other Professions

Mr. WILSON, crusading for professional ethics, said: The General Medical Council has no doubt in the minds of the medical profession that a member who advertised would not continue long within its ranks. The Dental Board and the Council of the Royal College of Veterinary Surgeons had warned advertising and canvassing for business to be unprofessional conduct. To explain why, Mr. Wilson quoted Carr-Saunders' book "The Professions":—

"A professional man is expected to observe certain obligations which arise out of the trust placed in him . . . When the position of trust is regarded as extending to professions as a whole it is seen that certain common commercial practices are incompatible with the rendering of professional services . . . professional men may only compete with one another in reputation for ability, which implies that advertisement and other methods familiar to the business world are ruled out. In the majority of professions advertising is rightly condemned."

Continuing, Mr. Wilson said he would maintain that dispensing was a professional occupation. An operation which depended on its success on the exercise of such skill and knowledge as could only be acquired

by long periods of systematic training, and for which operation special fees were charged could only be considered as professional.

If a pharmacist advertised dispensing services to the lay public, he must, if that advertisement was to succeed, prove four things. He must prove that he was qualified to dispense, that his pharmacy was adequately equipped for dispensing, that the medicaments he used were of good quality, and—most important of all—that his skill, equipment and drugs were superior to those offered by other pharmacists. That could only be done by implying that other members of the profession provided an inferior service—conduct which, he submitted, was detrimental to the best interests of the profession as a whole.

Mr. MORTIMER said that the weakness lay in that there had been no definition of the term "advertising." He considered that the name on the fascia of a pharmacy was an excellent advertisement, as was also the lettering on the dispensary screen. The appearance of a shop with smart counter displays was a form of advertising, as were trade circulars addressed to prospective customers bearing the name and qualifications of the sender. As for advertising in the lay Press, no newspaper nowadays knowingly accepted "knocking" copy—the advertising of a product which drew invidious comparisons with products supplied by other makers. No exception could be taken to announcements that advertised a service and not a person. Already pharmacists had collectively adopted that style of advertisement in notices to the public of rota services, etc., and such collective advertising should be continued. Mr. Mortimer claimed that, as he had been the author of a published code of professional

conduct, he knew a little about the ethics of the profession.

MR. J. R. STEWART, M.P.S., supporting the motion, said that the previous speaker had kept well away from the point to hide a very weak case. Pharmacists had virtually the whole of N.H.S. dispensing and therefore did not need to advertise. MR. N. DEWEY, M.P.S., said he had clung to the idea that a pharmacist was a professional man until he had heard Mr. Wilson's definition; he had now changed his mind. A pharmacist was an "intelligent technician." MR. E. ATKINS, Ph.C., barrister-at-law, thought Mr. Mortimer had brought out all the legal "red herrings." Pharmacy had attained the status of a profession. He drew attention to the danger of neglecting the professional aspect of the retailer's business. He felt that the Pharmaceutical Society would not envisage national advertising of pharmaceutical services and the N.P.U., he was convinced, would not oppose the Society in the matter. MR. H. S. FENTON

was in favour of the motion but said that in his view, collective advertising was in different category and might be permissible. MR. A. D. HOCKING, M.P.S., asked what supporters of the motion would do when the Government built clinics.

MR. A. E. SMITH, M.P.S., pointed out that members of professions could live by their professional work whereas a retail pharmacist could not. MR. FRANK DAVIS, M.P.S., considered that a retail pharmacist would not be a professional man until his shop window was replaced by a brain-plate. MR. N. S. BENJAMIN, M.P.S., urged that the reliability of a particular manufacturer's chemicals was no guarantee of the quality of the services of the pharmacist who dispensed them. Messrs. H. Fenton and G. A. Frith also spoke.

THE CHAIRMAN, summing up, said that the basis of all of the arguments put forward rested on definitions of advertising and of a profession. The motion was carried by one vote (twenty-five in favour and twenty-four voted against).

MEDICAL ABSTRACTS

Plasma Substitute.—Reports on dextrans (glucose polymers) as a substitute for blood and plasma are given in the "Lancet" (January 22) both by Thorsén, Stockholm, and by Bull and others. Thorsén used a Swedish proprietary solution of dextran (Dextran Ph) of 6 per cent. strength, in which most of the dextran molecules had been given a molecular weight conforming to that of albumin. Its viscosity was between that of blood and that of plasma, and its specific gravity slightly above that of human plasma. "Its thread-like molecules are electrically neutral and chemically indifferent." The solution is recorded as being non-toxic and causing no injury to the tissues. It is totally eliminated from the body. Bull and his co-workers, while warning that, as the ultimate fate of dextrans in the body is not known, they cannot yet be unreservedly recommended for widespread use, record that in their own trials a solution was not shown to have any harmful effect on the tissues. It had proved efficacious as a plasma substitute in cases of burns, and had produced a sustained increase in the venous return in shock patients. The authors suggest that in laying down a specification for dextran for intravenous use it is desirable to keep to a minimum the proportion of molecules of low weight that are present in the substance.

Properties of Aureomycin.—Further work on aureomycin observations (see also C. & D., 1948.II.467) made by Finland and colleagues ("Journal of the American Medical Association," 1948.138.946) indicates that the substance (sometimes called Duomycin) maintains its potency, as hydrochloride, apparently unaltered for at least seven months at room temperature. In solution, its activity remains constant for long periods at $-20^{\circ}\text{C}.$, while concentrated solutions (2 mgm. per c.c.) at $\text{pH } 4$ retain their activity over two weeks at $4^{\circ}\text{C}.$ and $37^{\circ}\text{C}.$ In the cases observed by the authors the antibiotic rapidly appeared in the urine and was excreted continuously for a few days after a single dose (0.5 or 0.75 gm.). In adequate dose by mouth the drug was of value in coccidial infection though the results in cases of gonorrhoea were inferior to those obtained with adequate doses of penicillin. In infections of the urinary tract the drug was comparable with or superior to streptomycin or the sulphonamides. The only evidence of toxicity was loose bowel movements after large oral doses; resistant organisms did not develop during the treatment observed.

Spink and others (*Ibid.*, 1948.138.114) used aureomycin to treat infections due to *Brucella melatensis*. In twenty-four patients treated, relatively small doses "dramatically altered" the disease's course.

CORRESPONDENCE

Premature Publicity

SIR,—An announcement in certain of the daily papers recently concerning a film prepared by this company for display at girls' schools was premature and inaccurate in many respects. It is correct that a film is being prepared as part of the biology syllabus for girls' schools, but the film is not yet finished and has not been seen either by us or by anyone else. When it is ready the Press and interested educational and welfare organisations will be invited to see it. When we are in a position to do so we shall, of course, be prepared to supply any information which may be of interest to chemists.

Yours faithfully,
SOUTHALLS (BIRMINGHAM), LTD.
Birmingham, 8.

Scottish Views on N.H.S. Payments

SIR,—I think the time has come when we should demand payment in full for all N.H.S. prescriptions dispensed. A token payment has been made since the inauguration of the scheme and July only has been paid for in full. Chemists' businesses are not so lucrative that they can subsidise the service for ever. Is it fair to ask them to accept a token payment of 3s. for a prescription costing 15s.? Let us get together and keep together.

Yours faithfully,
SCOTTISH CHEMIST.

SIR,—May I suggest to some of your correspondents who send in suggestions about the pricing of N.H.S. prescriptions that the chemist-contractor's job is to dispense and supply drugs and appliances. If we undertake pricing or elaborate sorting we are *ipso facto* reducing our remuneration by adding unpaid clerical work. We in Scotland feel that our English colleagues have let us down (or at least added to our troubles) by accepting a lower dispensing fee than our own, and it is unlikely that the Ministry of Health will overlook the fact that "averaging is practical politics." So far most of us in Scotland have received full payment for the three weeks' period in July, and only token payments for all subsequent months. In Fife, the payment on account for November was not received until January.

Yours faithfully,
Anstruther, R. S. WHITELAW.

Sorting Prescriptions

SIR, — Your correspondent, W. R. I. Nicholson (*C. & D.*, January 22, p. 122) need not wait until the end of the month before doing something about sorting and counting his prescriptions. My method is to use 6 x 4 in. index cards, which can be purchased from any good stationer, and use them for the immediate sorting of N.H.S. forms. One card is marked "S," one 1-7, one 8-15, and so on. Thus only five cards of the alphabet are used. If the cards marked Mc, X, Z, etc., are used, the usable remainder of the set can be used for other purposes. Every two or three days I count the loose forms in each division, mark the total on the back of each group, and then band them with a rubber band. On the next occasion it is necessary to count only the loose forms added in each division and add them to those already banded, again writing the totals on the backs of the final prescription in each bundle. Quite simple. There are so many Schedule 4 and D.D.A. scripts needing to be dated nowadays that I have had a stamp made in which the date appears where ordinarily the prescription book number would be written. All N.H.S. forms are stamped with this, and so there is not the necessity to bother as to whether the date was inserted on "that last pethidine script."

Hove, 3.

F. A. THOMAS.

Mr. Thomas's stamp (his business title is E. J. Foulkes) is approximately as follows (actual size):—

<p>E. J. FOULKES 22 JAN. 1949 99 SACKVILLE ROAD HOVE, 3</p>

SIR,—Your correspondents who are so concerned about the sorting of N.H.S. prescriptions (*C. & D.*, January 22, p. 122) appear to have overlooked the fact that the majority of prescriptions can readily be classified and coded on the margin either at the time of dispensing or at the end of the day's work, especially if a copy of the N.P.U. guide recently issued is kept handy. The final sorting will then take no longer than in the past, and can be carried out by any member of the staff.

Plymouth.

MAURICE A. SEARLE.

TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.

28 Essex Street, W.C.2, Jan. 26

BUSINESS has been on a moderate scale during the past week with the home-trade call remaining small and confined to a few seasonal products. Export business is still well maintained. Increased competition is being felt, and it is probable that the price level will continue downward. Supplies of most products are satisfactory. GUIACOLS, however, remain in short supply and it is understood that an increase in output is not expected for some months. SANTONIN, which is receiving a good inquiry, is also in poor supply. Trade in CRUDE DRUGS is again slow, with consumers confining purchases to their immediate requirements. At present merchants also are not disposed to carry large stocks, and in some instances have reduced their holdings to a bare minimum. A moderate spot business has been done in KOBÉ No. 1 AGAR strip. Prices from Japan of new-crop material for March-April shipment are 11s. 8d. per lb. for KOBÉ No. 1 and 10s. 8d. per lb. for Yokohama No. 1, both prices f.o.b. At present, however, no import licences are being granted. BALSAM TOLU is a weaker market at origin and the spot market is tending easier. Sumatra BENZOIN on spot is selling at slightly lower prices, although it is understood that prices have risen in the primary market. A parcel of CARDAMOMS, Mangalore half-bleached A's, is offering on spot at 11s. 6d. per lb. Rather higher prices are being asked for GENTIAN with dealers quoting prices from 60s. to 62s. 6d. per lb. compared with 57s. 6d. a week ago; inquiry from Germany is understood to be responsible for the firmer spot market. MENTHOL on spot is offered at 40s. 6d. per lb., duty paid, and a routine business is being done at this price. Trade in ESSENTIAL OILS has been small. Ceylon CITRONELLA is in short supply on the spot and is quoted at slightly higher prices. Java citronella is scarce; at origin, February-March shipment is 7s. per lb., c.i.f.

U.S. Drug and Chemical Report

New York, January 21

THE market for PHARMACEUTICAL and FINE CHEMICALS was featured during the week by price cuts for SILVER NITRATE and powdered PROCAINE PENICILLIN. Silver nitrate is now quoted at 44½ cents per oz., against 46½ cents previously, for lots of 2,500 oz. Procaïne penicillin was reduced by \$1 per 10-c.c. vial, bringing it into line with procaïne penicillin in oil; the new cost is \$8.00 per vial. MENTHOL was advanced from \$8.90 per lb. to \$9.00 on the inside during the week and it is thought that any improvement in the currently low

level of demand would bring about further increases. Very little Brazilian material being offered at the present time. Chinese produce is in only slightly better supply position. A clearer picture of MERCURY market is expected when the results of an auction of about 2,500 flasks of Japanese metal are known. Sales have been reported recently well under the higher levels brought about by the advance announced by the Spanish-Italian cartel. Price movements on the CRUDE DRUGS market have, in general, been in the favour of buyers over the past week, due to the currently low level of demand. The future supply position of a number of important items remains unsettled in view of the stricter regulations now being imposed by the Food and Drug Administration. Among products to be rejected in the past few weeks are PSYLLIUM SEED and RHUBARB. The latter item has turned slightly easier on the market here over the past week. The market for ESSENTIAL OILS, increased as reported in the prices of California and Florida ORANGE OILS.

Pharmaceutical Chemicals

AMPHETAMINE.—In good request. Quotations for BASE and SULPHATE are from 115s. to 120s. per lb. *d*-AMPHETAMINE priced at 17s. per oz.

BENZYL BENZOATE.—B.P. is quoted from 4s. 6d. to 5s. per lb., according to quantity; perfumers' quality, 5s. to 5s. 6d.

BISMUTH SALTS.—Prices are unchanged. Makers' rates per cwt. are: CARBONATE 14s. 7d.; CITRATE, 12s. 3d.; SALICYLATE and SUBNITRATE, 12s. 6d.; SUBGALLATE 15s. 6d.; OXYCHLORIDE, 16s. 8d.; NITRATE 8s. 8d.; OXIDE, 17s. 2d.; SALICYLATE (per cent.), 12s.; TRIBROMOPHENATE, 23s.

BORIC ACID.—Current rates for ton lots of B.P. quality are: granulated, £61 crystal, £61; powder, £62. Commercial grades, £8 per ton less. Packed in 1 cwt. bags, delivered carriage paid in Great Britain, in 1-ton lots and upwards. Terms quoted do not apply to Northern Ireland.

CHLOROPHYLL.—Pharmaceutical quality is offered at 60s. per lb.; soapmaker's grade is available at 17s. 6d. per lb.

CHLOROXYLENOL.—Pharmaceutical quality is quoted at 5s. 6d. per lb. in 1-cwt. drums.

CREAM OF TARTAR.—Makers' rates from January 1 in the home trade are: 10-cwt. lots, 148s. per cwt.; 5-10 cwt., 149s.; less than 5 cwt. and more than 2 cwt., 150-1-2 cwt., 152s., delivered.

CREOSOTE, B.P.—Quotations for material derived from beechwood are from 6s. to 7s. 6d. per lb.

UAIACOLS.—No improvement in supply. Liquid quoted at from 14s. 6d. to per lb., and crystal and carbonate, to 15s., according to quantity.

EXAMINE.—B.P. is quoted at from 3d. to 2s. per lb., as to quantity.

IODIDES.—Prices (per lb.) of minor grades are as follows: **AMMONIUM, B.P.C.**, 2s. 15s. 9d., smalls, 16s. 3d.; **ARSENIC (iodide)**, 28s. 6d.; **CADMIUM, B.P.C.**, 1s. 3d.; **CALCIUM, B.P.C.**, 19s.; **ETHYL**, 28s.; **IRON, B.P.C.**, 14s.; **LEAD, B.P.C.**, powder, 1s. 8½d.; **LITHIUM, B.P.C.**, 20s. 3d.; **STRONTIUM, B.P.C.**, 18s. 6d.; **ZINC, B.P.C.**, 3d.; **MERCURIC, B.P.**, 7 lb., 14s. 3d., 14s. 14s. 9d.; **MERCURIOS, B.P.C.**, green yellow, 7 lb., 18s. 6d.; smalls, 19s.

ALDEHYDE.—Rates for B.P. material as follows: 5 carboys, 1s. 5d. per lb.; carboy, 1s. 6d.; 24 winchesters, 1s. 7½d.; 1s. 8½d.; 6s. 10d.; 3, 1s. 11d. per lb.

EPSIN.—For pharmaceutical quality grades from 28s. to 30s. per lb. are asked, according to quantity.

PHOSPHATES.—Steady. Makers' rates per lb. are as follows: **SODIUM, B.P.**, 1 lb., 6d.; 28 lb., 7½d. **SODIUM ACID, B.P.**, 1 lb., 1s. 9d.; 28 lb., 2s. 10d. **AMMONIUM, B.P.C.**, 1 lb., 6d.; 28 lb., 2s. 10d. per lb. **PHOSPHORIC ACID, B.P. (Concentrated)** is priced at from 2d. to 1s. 3d. in carboys, and from 5d. to 1s. 9d. per lb. in winchesters.

RESORCIN.—Current prices are at from 6d. to 12s. 6d. per lb., according to quantity.

SALICYLIC ACID.—Makers' quotation for 1 lb. is 2s. 2½d. per lb.; scheduled rates for quantities of 28 lb. and under (containers in brackets) are: 10½d. (1-lb.); 2s. 9½d. (2-lb.); 2s. 9d. (3-lb.); 2s. 8d. (7-lb.); 2s. 7½d. (14-lb.); 6½d. (28-lb.). Net one month.

SALICYLSULPHONIC ACID.—Quotations are about 12s. 6d. per lb.

ANTONIN.—Supplies are difficult to obtain. Makers' rates are: 5 kilos, £44 per ton; less than 5 kilos, £45; 1 kilo, £46; 1/2 kilo, £47; quarter-kilo, £48 per kilo;riage paid in U.K.

PERPINEOL.—Prices for B.P. grade are from 2s. 9d. to 3s. per lb.

THEOBROMINE.—Prices per lb. are: **CALOID**, from 34s. 6d. to 38s. 6d.; **CALOID SALICYLATE** and **SODIUM SALICYLATE**, to 24s.; **SODIUM BENZOATE**, 22s. 6d. to 24s. 6d. Containers: 14-lb. tins and upwards, free and non-returnable; 1-cwt. (kilo) kegs and cases, free for export, home trade charged extra (returnable).riage paid on net invoice value of not less than £20. Assorted contracts for the various preparations (excluding theobromine sodium benzoate) and the principal grades may be booked for not less than 5 months over six months.

Crude Drugs

ACONITE.—Steady. Indian, on the spot, is quoted at 275s. per cwt.; *napellus*, offered at 3s. 10½d. to 4s. 3d., duty paid.

ALOES.—Prime Cape on spot is offered at 110s. to 115s. per cwt.; shipment, 101s. 6d. Curaçao is easy at from 185s. to 210s. per cwt., as to quality. Socotrine, 160s. to 180s. per cwt., spot.

BENZOIN.—Sumatra block on the spot is from £14 to £15 10s. per cwt., as to quality; Sumatra almonds, £45. Siam free almonds, spot, £120 per cwt.

CASCARILLA.—Steady. Quills are quoted at 1s. 5d. to 1s. 7d. per lb., spot; siftings, 1s. 4d. to 1s. 5d.

CHILLIES.—Quiet. Mombasa on spot is quoted at 120s. per cwt.; Zanzibar, 135s.; Japanese-type, 160s.

CINNAMON.—Steady. Spot quotations for 0000 are at from 2s. 7d. per lb.; quillings are offered at 1s. 4½d., featherings at 1s. 3d. and chips at 6d. per lb.

CLOVES.—Zanzibar, spot, quoted at 1s. per lb.; shipment, 1s. 1d., c.i.f. Madagascar, spot, in bond, 10½d.; shipment, 10d., c.i.f. Penang, spot, 3s. per lb.

COCHINEAL.—Quiet. Silver greys, steady at 4s. 3d. per lb., spot; for black on spot, 5s. 3d. per lb. now asked.

CUBEBS.—Steady. Spot quotations are at 3s. 9d. per lb., duty paid.

DIGITALIS.—English leaves are valued at from 2s. 3d. per lb.; powder, B.P., is offered at 5s. 9d. per lb.

ELEMI.—Manila No. 1 gum is offering in London at 2s. 3d. per lb.

EPHEDRA.—Herb is offered at around 62s. 6d. to 67s. 6d. per cwt., ex wharf.

ERGOT.—Portuguese sound material on spot is available at 5s. 3d. to 5s. 5d. per lb.; shipment, 5s. per lb., c.i.f.

GENTIAN.—Dealers are asking 62s. 6d. per cwt. for French natural; sliced is available at 75s. per cwt., spot.

GINGER.—African on spot is quoted at 87s. 6d. per cwt.; new-crop, March-April shipment, 70s. per cwt., c.i.f. Jamaican No. 1 quoted at 135s.; No. 2, 127s. 6d.; No. 3, 122s. 6d. per cwt., spot.

GUAIAACUM RESIN.—Steady. Prices are from 2s. 4½d. to 2s. 6d. per lb., spot.

GUM ACACIA.—Kordofan cleaned sorts on the spot are offering at 65s. per cwt.; shipment, 59s., c.i.f. Bleached No. 1, 125s., spot; shipment, 115s., c.i.f. Talha on spot, 45s. per cwt.; forward, 40s., c.i.f.

HENNA.—Sudanese leaves on the spot is obtainable at prices around 75s. per cwt. Indian is available at about 85s. per cwt.; powdered leaf, 1s. 5d. per lb.

HYDRASTIS.—Quota supplies for use in products primarily for export are offered at 35s. per lb.; small quantities free from restriction are quoted at 40s. per lb., spot.

PECACUANHA.—Spot quotations for Nicaraguan or Costa Rican are from 23s. 6d. to 24s. per lb.; shipment, February-March, 22s., c.i.f.; March-April, 21s. 3d., c.i.f.

LIQUORICE.—Dealers are asking 47s. to 47s. 6d. per lb. for Anatolian natural root on spot; Syrian, 40s.; Russian, 45s. 6d. to 46s. Italian block on spot is obtainable at 175s. per cwt.; Italian stick is quoted at 295s. to 560s. per cwt., as to grade. Turkish block is offered at 223s. to 230s. per cwt.; Turkish stick is available at 3s. per lb. American block is now offering at 160s. to 200s. per cwt., as to seller.

MENTHOL.—A moderate spot business in Brazil material at 40s. 6d. per lb., duty paid; in bond, 41s. 6d.; forward, 36s. 6d. to 37s. 6d., c.i.f.

NUX VOMICA.—Receiving a small inquiry. Madras, spot steady at 40s. to 42s. 6d. per cwt.; Mangalore, 40s.; Cochin, 42s. 6d., spot.

OLIBANUM.—Steady. Fair drop is offered at 150s., peas at 190s., fair garblings, 125s., and siftings at 80s. per cwt., spot.

ORANGE PEEL.—Spanish quarters, 1s. 2d. to 1s. 5d., spot; sweet ribbon, 1s. 9d. Seville bitter ribbon, 1s. 1d.; thin-cut Tripoli, 1s. 2d. per lb.

ORRIS.—Florentine root on the spot is offered at 125s. per cwt.; Verona root, spot, 105s. per cwt. quoted.

PAPAIN.—Quiet. East African No. 1 white, 18s. per lb., spot; Ceylon brown, 12s.

PIMENTO.—Quiet. Quotations are from 1s. 2½d. to 1s. 3d. per lb., spot; to arrive, 119s. per cwt., c.i.f.

RHUBARB.—Firm. Chinese rough round on spot is quoted at 4s. 9d. to 5s. per lb., duty paid; afloat, 4s. 6d., c.i.f. No. 2 grade, 3s. 6d. per lb., spot; wormy material 2s. 9d. to 3s.

SEEDS.—A quiet market reported for ANISE; Cyprus is 1s. 5d. per lb., and Turkish, 1s. 4d. per lb., duty paid, spot London. CARAWAY. — Dutch continues firm at 122s. 6d. per cwt., duty paid, spot London. CELERY.—Indian remains unchanged at 1s. 2½d. per lb., spot London or Liverpool. CORIANDER.—Argentine, offered at 37s. 6d. per cwt., duty paid, spot London or Liverpool; Morocco, quoted at 37s. 6d. per cwt., duty paid, spot London. No business reported at these prices. CUMIN.—Indian is quoted at 185s. per cwt., spot London or Liverpool; Cyprus is quiet, with sellers quoting 190s. spot London. DILL.—Indian is firm at 47s. 6d. per cwt., spot London or Liverpool. FENNEL.—Indian quiet and unchanged; 70s. per cwt. quoted, spot London, and 69s. per cwt., spot Liverpool. FENUGREEK. — Market continues firm. Indian, 54s. per cwt., spot London or Liverpool; for shipment, 55s. c.i.f., quoted; Morocco is still offering at 54s. per cwt., duty paid London or Liverpool.

SENEGA.—Spot prices are at 8s. per forward, 7s. 6d. per lb., c.i.f.

SHELLAC.—F.O.T.N., pure, 345s.; Standard 1, 360s.; fine orange, 375s. 415s. per cwt., all ex London warehouses.

WAXES.—Quiet. BEES'.—Spot offered. Dar-es-Salaam are unchanged at 335s. cwt.; shipment, 325s., c.i.f. Benguela bond, 310s.; shipment, easier at 2.

CANDELILLA.—Quoted at 407s. 6d. per cwt., spot; February-March delivery, 3.

CARNAUBA.—Easier. Prime yellow on spot, 685s. per cwt.; shipment, 610s., c.i.f. Grey, spot, 460s. per cwt.; shipment, 4.

c.i.f., buyer's licence. Chalky grey, 400s., c.i.f. MONTAN.—Rebeck, 255s. per cwt.; 220s., February-March delivery. Czechoslovak crude, 240s.

cwt., spot; shipment, 200s., c.i.f. OURIC.—1 per cent., 430s. per cwt., c.i.f.; 2.8

cent., spot, 430s.; 6 per cent., spot, 429 per cent., spot, 405s. SPERMACE

Quoted at 2s. 8d. per lb.

Essential and Expressed Oils

ALMOND.—B.P. sweet oil is offered at 6s. per lb., as to quantity. Bitter essential oil is offered at from 27s. 6d. to per lb., as to grade.

CADE.—Steady. Spanish oil, B.P. spot, is offered at from 3s. 4d. to 3s. per lb., as to quantity; French is quoted at about 2s. 9d. per lb., spot.

CAJUPUT.—B.P. is offering at from 25s. per lb., spot.

CAMPHOR.—White oil on spot is quoted at from 2s. 4d. to 2s. 6d. per lb., duty paid brown, shipment, 2s. 9d., c.i.f.

CITRONELLA.—Ceylon is quoted at 3s. 10d. to 4s. per lb., spot; forw 3s. 5d., c.i.f. Java, scarce on spot, will be worth 8s. per lb.; prompt shipment Holland, 7s. 3d., c.i.f.; from origin, February-March, 7s., c.i.f.

CLOVE.—Steady. Quotations for English-distilled bud oil are at from 10s. to 11s. per lb., according to quantity.

DILL.—English-distilled is scarce prices are from 65s. to 70s. per lb.

LAVENDER.—French, 38-40 per cent spot, is quoted at from 14s. to 16s. per 40-42 per cent., 15s. 6d. to 18s. Spike is from 8s. 3d., spot.

ORIGANUM.—Quotations are 17s. 9d. to 18s. 6d. per lb., spot, according to holder.

PALMAROSA.—Quoted on spot at 34s. lb.; shipment, 26s. 6d., c.i.f.

PATCHOULI.—Singapore on the spot quoted at from 27s. 6d. to 30s. per lb.

PIMENTO BERRY.—English-distilled offered at from 55s. to 65s. per lb. and wards, as to quantity and grade.

TEREBINTH.—Quotations for B.P. oil from 1s. 6½d. to 1s. 10½d. in winches and 1s. 5d. per lb. in carboys.

OVERSEAS TRADE IN 1948

Statistics compiled from the Trade and Navigation Accounts

	<i>Imports</i>		<i>Exports (U.K. Goods)</i>		<i>Total Exports</i>
...	£2,079,537,813	...	£1,583,328,704	...	£1,647,864,252
...	£1,794,540,460	...	£1,138,235,822	...	£1,198,075,045
...	£919,508,933	...	£470,755,320	...	£532,279,966

DESCRIPTION	IMPORTS		EXPORTS	
	1947	1948	1947	1948
	£	£	£	£
Chemicals, drugs, dyes, etc. (group total) ...	26,718,918	31,402,129	67,426,175	83,670,282
Salicylic acid and salicylates ...	—	—	180,396	314,222
Disinfectants, insecticides, weed killers, cattle dressing, etc. ...	—	—	3,419,367	3,989,151
Glycerin ...	23,008	—	78,746	190,206
Starch ...	338,103	376,145	—	—
Alcohol ...	409,638	211,051	—	—
Crystalline tartar ...	—	—	69,597	28,244
Essences (perfumed) ...	—	—	691,966	694,019
Drugs and medicines (miscellaneous manufactures) ...	1,001,526	724,026	14,561,751	15,758,466
Proprietary medicines ...	117,203	225,308	5,721,623	5,114,559
Quinine and quinine salts ...	351,812	59,506	282,663	393,196
Aspirin ...	—	—	450,877	343,669
Insulin ...	—	—	244,177	385,652
Penicillin ...	—	—	1,081,027	2,048,754
Ointments and liniments ...	—	—	516,895	628,990
Drugs, etc., raw or simply prepared...	2,295,973	1,268,033	—	—
Cinchona bark ...	229,688	196,384	—	—
Peperomia and other roots (total) ...	541,867	319,348	—	—
Cod-liver oil ...	58,492	31,101	463,721	596,159
Essential oil, refined ...	462,350	1,476,870	—	—
Essential oils, natural...	2,747,552	1,994,419	232,168	436,876
Toilet soap ...	—	—	503,629	1,192,854
Perfumery and toilet preparations, excluding spirits, essential oils and soap (total) ...	292,232	75,130	3,296,801	2,957,623
Dental preparations ...	—	—	553,112	572,260
Cosmetics ...	—	—	1,230,143	936,472
Toilet requisites (excluding brushes)...	45,906	31,979	155,559	155,375
Shaving brushes ...	—	—	101,689	78,705
Tooth and dental brushes ...	—	—	203,860	154,661
Hair and other toilet brushes ...	—	—	343,785	273,059
Combs, etc ...	296,485	222,735	539,099	963,687
Surgical, surgical instruments, etc. (except optical) ...	81,034	81,605	592,379	555,809
Surgical and medical plasters ...	—	—	551,280	596,169
Other druggists' wares (unspecified)...	—	—	416,655	562,888
Bandages ...	—	—	243,823	252,766
Wool and gauze tissues ...	—	—	375,658	436,099
Medical glassware ...	—	—	675,020	879,984
Medical machinery ...	128,114	265,641	991,748	2,192,812

RE-EXPORT totals were as follows: Chemicals, drugs, dyes, etc., 1948, £781,305 (1947, £6,642); manufacturing drugs and medicines, £375,968 (£291,756); drugs, raw or simply prepared, £325,938 (£457,821); essential oils, £171,944 (£191,403); cod-liver oil, £894 (£40,627).

TRADE MARKS

- (From the "Trade Marks Journal," January 12)
- "SENTRY"; by Bristol-Myers Co., New York; 659,439. For toilet dressings for the hair (3).
- "P. S. BANARSE & Co (PRODUCTS), LTD." round girl's head; by P. S. Banarse & Co. (Products), Ltd., London, N.W.11; B662,090. For all goods (3).
- "SILVIKRIN-VITOL" by Drugs, Ltd., London, N.10; 663,244. For cosmetics (not being toilet preparations), dentifrices, non-medicated mouth washes, toilet preparations for the hair and perfumed soaps (3).
- "LARICHELE"; by Raton Frères, London, W.1; 667,873. For non-medicated toilet preparations (3).
- "NISADE," by the Lady Newborough, Ltd., London, W.1; 668,025. For perfumes (3).
- "MEDAKE"; by Matthew Horner Robertson, Glasgow; 657,557. "THERAPOULE"; by Therapeutic Products, Ltd., Greenford; 665,998. "MUCOTIN"; by the Harrower Laboratory, Inc., Glendale, U.S.A.; 666,204. For pharmaceutical preparations (5).
- "MYSOCREME"; by Donald Shearer, Motherwell; 661,459. For pharmaceutical ointments and creams (5).
- "VANCIDE" in distinctive lettering; by R. T. Vanderbilt Co., Inc., New York; 665,006. For fungicides, bactericides and insecticides (5).
- "HYPNODORM"; by the Wellcome Foundation, Ltd., London, N.W.1; B665,142. For hypnotics (5).
- "DIPARCOL" and "LYSIVANE"; by May & Baker, Ltd., Dagenham; 665,804 and 671,107. "GEWO"; by Ed. Geistlich Söhne A.G. Für Chemische Industrie, Lucerne; 667,019. For all goods (5).
- "PORTEWAY, THE GATEWAY TO HEALTH" and device of gateway (words "The Gateway to Health" disclaimed); by Newlands Bros. & Mumford, Ltd., London, W.10; 667,877. For disinfectants (5).
- "HARLEY"; in distinctive lettering; by Harold Wesley, Ltd., London, N.W.10; 641,584. For toilet paper (16).
- "VEY BEY"; by Bompois & Viard V.B., Paris; B663,221. For vaporisers (21).
- (From the "Trade Marks Journal," January 19)
- "RHOVINAL"; by Société des Usines Chimiques Rhone-Poulenc, Paris; 665,208. For all goods, excluding photographic chemicals or soldering pastes (1).
- "LEVIMAG"; by Kagylene, Ltd., London, N.W.2; B666,366. For magnesia (1).
- "RUTANIUM"; by National Titanium Pigments, Ltd., Luton; 666,916. For all goods (1).
- "SCRUBB'S CLOUDY AMMONIA" on label device; by Scrubb & Co., Ltd., London, S.W.19; 662,676 and 663,495. For ammonia preparations (3).
- "VELOUTE DE PECHE" in distinctive lettering; by Reine des Crèmes, Ltd., Greenford; B662,690. For vanishing cream (3).
- "KALORA-CRIN"; by Vine's Biocrin, Ltd., London, W.2; 663,175. For toilet preparations for the hair (3).

- "GENICOL"; by Genic, Ltd., Derby; 665,969. For detergents (3).
- "GLEN-MIST"; by Maria Hornes, Ltd., London, W.1; 666,679. For perfumes and non-medical toilet water (3).
- "JASBRILL"; by Jasco, Ltd., London, W.C.2; 667,723-24. For brilliantines (3). For medical brilliantine for use in the treatment of dandruff (5).
- "GORNILENE"; by Gorney, Ltd., Manchester; 667,969. For all goods (3).
- "VOVAN"; by Denbro, Ltd., Birmingham; 668,038. For cosmetic powder, lipstick, mascara, eye-shadow and toilet rouge cases (3).
- "FEMEX"; by Wilfred Stretch & Co., Ltd., Rotherham; 668,197. For liquid preparations for preventing ladders in stockings (3).
- "VITAX"; by Vitax Fertilisers, Ltd., Ormskirk; 654,740. For insecticides, disinfectants, etc., including sheep and cattle dips (5).

COMING EVENTS

Tuesday, February 1

BIRMINGHAM PHARMACEUTICAL ASSOCIATION, Grand Hotel, Birmingham, at 8 p.m. Mr. G. A. M. Linson (secretary, National Pharmaceutical Union) on "Your Responsibility under National Health Service."

Thursday, February 3

DURHAM COUNTY BRANCH, Pharmaceutical Society, Pattinson's Dunelm Hotel, Old Elvet, Durham, at 7.30 p.m. Members' night—short talks by members.

Friday, February 4

LIVERPOOL CHEMISTS' ASSOCIATION, Masonic Suite, Adelphi, at 7.30 p.m. Mr. H. N. Linstead (a secretary of the Pharmaceutical Society) on "Further Aspects of Pharmacy."

SOUTH-WEST LONDON CHEMISTS' ASSOCIATION, Carpenter's Restaurant, The Pavement, London, S.W.4, at 7.45 p.m. Debate on "The Chemist's Friends Scheme."

BRIGHTON AND HOVE ASSOCIATION OF PHARMACEUTICALS AND BRANCH OF THE PHARMACEUTICAL SOCIETY, holding their annual dinner and dance at the Dingley Hotel, Hove, on Wednesday, February 6 p.m.-1 a.m. (dinner 6 p.m., supper 9.30 p.m.-10.30 p.m.). Guest of honour, Mr. H. C. Sherrington (president of the Society). Tickets (30s. each dinner, supper and dance, 17s. 6d. each for supper and dance only) from Mr. Arch Wilson, Hove Park Villas, Hove, 4.

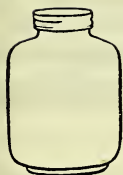
DURHAM COUNTY BRANCH, PHARMACEUTICAL SOCIETY, is holding its annual dinner at the Garth House, North End, Durham, on Wednesday, March 9 (not March 3 as originally arranged), 7 p.m.-7.30 p.m. Tickets (10s. 6d. each) from Mr. Wood, Woodbine House, Old Hunwick, nr. Villingdon, co. Durham.

NATIONAL ASSOCIATION OF WOMEN PHARMACEUTICALS is holding its annual dance at the Bonning Hotel, Southampton Row, London, W.C.1, February 16. Tickets (including refreshments) 10s. 6d. each from Miss M. Lloyd, Pharmaceutical Department, Hammersmith Hospital, London, W.12.

SLOUGH CHEMISTS' ASSOCIATION is holding a dinner and dance at the Castle Hotel, Windsor, Wednesday, February 23. Tickets (price 17s. 6d. each) from Miss Janet Hincks, Pharmacy Department, Upton Hospital, Slough.

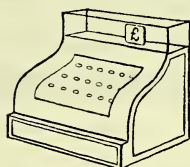
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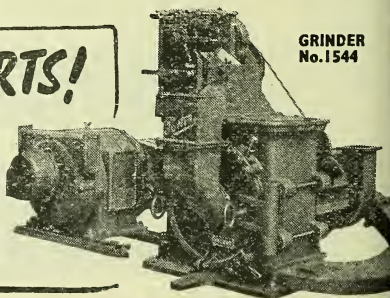
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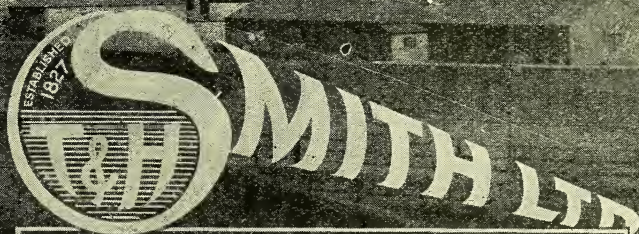
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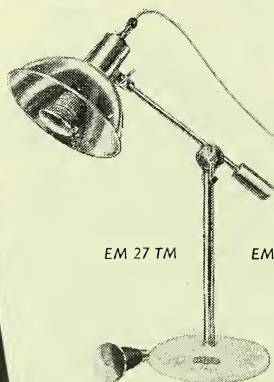
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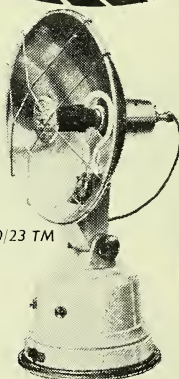
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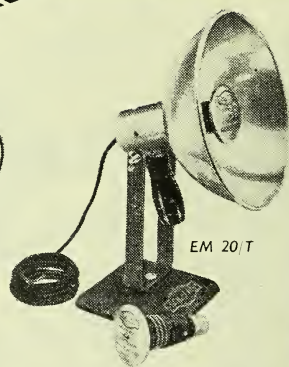
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